



846 Inventory Inquiry/Advice - v4010

X12/V4010/846

Version: DRAFT rev3

Author:	Inovis, a GXS Company
Publication:	June 24, 2010
Modified:	August 23, 2016



Revision History

Date	Version	Revision	Approved By
June 24, 2010	Draft rev1	Created	Draft
July 1, 2010	Draft rev2	1. Added LIN04-31 optional 2. Added PID optional 3. Changed required element usage tags to Must Use 4. Added ISA/IEA and GS/GE segments to pg 4.	Draft
July 6, 2010	Draft rev3	1. Limited LIN code list to EN, SZ, UP, VA, and VE 2. Removed LIN12-31 3. Removed PID segment	Draft

Purpose

This document provides detailed guidelines and conventions for implementing the 846 Inventory Inquiry/Advice transaction set with Boscov's Department Store, LLC. This document will provide you with all of the information necessary to fulfill our requirements.

These guidelines comply with published GS1 standards for EDI version 4010 for all data elements and segments.

Mandatory segments and elements are always required on every document. Optional segments and elements that are required by Boscov's Department Store, LLC are marked as "Must Use". Segment usage is marked at the top of each page under Usage. Element usage is marked in the far-left column beside each element. If the column is blank, the element is optional. Information in the Attributes column is from the GS1 standards and is provided for reference only. Trading Partners must adhere to our requirements as indicated by "Must Use".

Business Rules

Boscov's receives 846 Inventory Advices from its vendors. Boscov's does not transmit 846 Inventory Inquiries.

At a minimum, UPC or EAN code must be sent in LIN.

Contacts

Compliance Services: Inovis 1-877-446-6847 Option 1, then Option 2.

Boscov's Department Store, LLC: Sandy MacGilvray, 1-610-370-3425

Technical Information

Production Communication IDs

S/R ID: 01/014492501

VAN: Inovis

Delimiters

Element Separator - "*"

(HEX "2A" in ASCII)(HEX "5C" in EBCDIC)

Component (Sub Element) Separator - ">"

(HEX "3E" in ASCII)(HEX "6E" in EBCDIC)

Segment Terminator - "~"

(HEX "7E" in ASCII)(HEX "A1" in EBCDIC)

846 Inventory Inquiry/Advice

Functional Group ID= **IB**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	005	ISA	Interchange Control Header	M	1		
Must Use	008	GS	Functional Group Header	M	1		
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1		
Must Use	050	DTM	Date/Time Reference	O	10		
Must Use	060	REF	Reference Identification	O	12		
			LOOP ID - N1			5	
	080	N1	Name	O	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - LIN			10000	
Must Use	010	LIN	Item Identification	M	1		
			LOOP ID - QTY			99	
Must Use	320	QTY	Quantity	O	1		

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	CTT	Transaction Totals	O	1		n1
Must Use	020	SE	Transaction Set Trailer	M	1		
Must Use	030	GE	Functional Group Trailer	M	1		
Must Use	040	IEA	Interchange Control Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (QTY02) of each QTY segment.

Segment: **ISA** Interchange Control Header
Position: 005
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

Ref.	Data
<u>Des.</u>	<u>Element Name</u> <u>Attributes</u>
Must Use	ISA01 I01Authorization Information QualifierM ID 2/2 Code to identify the type of information in the Authorization Information 00No Authorization Information Present (No Meaningful Information in I02)
Must Use	ISA02 I02Authorization InformationM AN 10/10 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)
Must Use	ISA03 I03Security Information QualifierM ID 2/2 Code to identify the type of information in the Security Information 00No Security Information Present (No Meaningful Information in I04)
Must Use	ISA04 I04Security InformationM AN 10/10 This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)
Must Use	ISA05 I05Interchange ID QualifierM ID 2/2 Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Refer to 004010 Data Element Dictionary for acceptable code values.
Must Use	ISA06 I06Interchange Sender IDM AN 15/15 Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element
Must Use	ISA07 I07Interchange ID QualifierM ID 2/2 Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified 01Duns (Dun & Bradstreet)
Must Use	ISA08 I08Interchange Receiver IDM AN 15/15 Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them User Notes: 014492501
Must Use	ISA09 I09Interchange DateM DT 6/6 Date of the interchange
Must Use	ISA10 I10Interchange TimeM TM 4/4 Time of the interchange
Must Use	ISA09
Must Use	ISA10

Must Use	ISA11	I10	<p>Interchange Control Standards IdentifierM ID 1/1 Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer Refer to 004010 Data Element Dictionary for acceptable code values.</p>
Must Use	ISA12	I11	<p>Interchange Control Version NumberM ID 5/5 This version number covers the interchange control segments 00401Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</p> <p>Interchange Control NumberM N0 9/9 A control number assigned by the interchange sender</p>
Must Use	ISA13	I12	<p>Acknowledgment RequestedM ID 1/1 Code sent by the sender to request an interchange acknowledgment (TA1) 0No Acknowledgment Requested</p>
Must Use	ISA14	I13	<p>Usage IndicatorM ID 1/1 Code to indicate whether data enclosed by this interchange envelope is test, production or information PProduction Data TTest Data</p>
Must Use	ISA15	I14	<p>Component Element SeparatorM AN 1/1 Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator</p>
Must Use	ISA16	I15	

Segment: **GS** Functional Group Header
Position: 008
Loop:
Level:
Usage: Heading
Max Use: Mandatory
Purpose: 1
Syntax Notes: To indicate the beginning of a functional group and to provide control information
Semantic Notes:

- Comments:** 1 GS04 is the group date.
 2 GS05 is the group time.
 3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.
 1 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Data Element Summary

Ref.	Data
<u>Des.</u>	<u>Element Name</u> <u>Attributes</u>
Must Use	GS01 479Functional Identifier CodeM ID 2/2 Code identifying a group of application related transaction sets IBInventory Inquiry/Advice (846)
Must Use	GS02 142Application Sender's CodeM AN 2/15 Code identifying party sending transmission; codes agreed to by trading partners
Must Use	GS03 124Application Receiver's CodeM AN 2/15 Code identifying party receiving transmission; codes agreed to by trading partners User Notes: 014492501
	373DateM DT 8/8 Date expressed as CCYYMMDD
Must Use	GS04 337TimeM TM 4/8 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)
Must Use	GS05 28Group Control NumberM N0 1/9 Assigned number originated and maintained by the sender
	455Responsible Agency CodeM ID 1/2 Code used in conjunction with Data Element 480 to identify the issuer of the standard
Must Use	GS06 XAccredited Standards Committee X12
Must Use	GS07 480Version / Release / Industry Identifier CodeM AN 1/12 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 subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed
Must Use	GS08 004010GS1 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997, Version 4, Release 1, the GS1 EDI Subset

Segment:
Position:
Loop:
Level:
Usage:
Max Use:
Purpose:
Syntax Notes:
Semantic Notes:

ST Transaction Set Header
 010

Heading
 Mandatory
 1

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

- 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>
Must Use	ST01	143Transaction Set Identifier CodeM ID 3/3 Code uniquely identifying a Transaction Set 846Inventory Inquiry/Advice
Must Use	ST02	329Transaction Set Control NumberM AN 4/9 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: **BIA** Beginning Segment for Inventory Inquiry/Advice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an Inventory Inquiry/Advice Transaction Set
Syntax Notes:
Semantic Notes:

- 1 BIA03 identifies the number of the inquiry/advice that is transferred.
- 2 BIA04 identifies the date of the inquiry/advice that is transferred.
- 3 BIA05 identifies the time of the inquiry/advice that is transferred.

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>
	<u>Des.</u>	<u>Element Name</u> <u>Attributes</u>
Must Use	BIA01	353Transaction Set Purpose CodeM ID 2/2 Code identifying purpose of transaction set 00Original 07Duplicate
Must Use	BIA02	755Report Type CodeM ID 2/2 Code indicating the title or contents of a document, report or supporting item MBManufacturer/Distributor Inventory Report
Must Use	BIA03	127Reference IdentificationM AN 1/30 Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier
Must Use	BIA04	373DateM DT 8/8 Date expressed as CCYYMMDD
Must Use	BIA04	

Segment: **DTM** Date/Time Reference
Position: 050
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

User Notes

Only one instance of the DTM segment is required using either Report Start Date or Report End Date.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element Name</u>	<u>Attributes</u>
Must Use	DTM01	374Date/Time Qualifier Code specifying type of date or time, or both date and time 090Report Start 091Report End	M ID 3/3
Must Use	DTM02	373Date Date expressed as CCYYMMDD	X DT 8/8

Segment: REF Reference Identification
Position: 060
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:
 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
 1 REF04 contains data relating to the value cited in REF02.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element Name</u> <u>Attributes</u>
Must Use	REF01	128Reference Identification QualifierM ID 2/3 Code qualifying the Reference Identification BTBatch Number
Must Use	REF02	127Reference IdentificationX AN 10/10 Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier User Notes: Unique 10-character Batch Number

Segment: N1 Name
Position: 080
Loop: N1Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

<u>Ref.</u>	<u>Data</u>
<u>Des.</u>	<u>Element Name</u> <u>Attributes</u>
N101	98Entity Identifier CodeO ID 2/3 Code identifying an organizational entity, a physical location, property or an individual RLReporting Location
N102	93NameX AN 1/60 Free-form name User Notes: Sender's Warehouse Location
N103	66Identification Code QualifierX ID 1/2 Code designating the system/method of code structure used for Identification Code (67) 91Assigned by Seller or Seller's Agent
N104	67Identification CodeX AN 2/80 Code identifying a party or other code User Notes: Sender's Warehouse Location Number

Segment: **LIN** Item Identification
Position: 010
Loop: LINMandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

1 LIN01 is the line item identification
1 See the Data Dictionary for a complete list of IDs.
2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item.
For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>
	Des.	Element NameAttributes
Must Use	LIN02	235Product/Service ID QualifierM ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) ENEuropean Article Number (EAN) (2-5-5-1) SZVendor Alphanumeric Size Code (NRMA) UPU.P.C. Consumer Package Code (1-5-5-1) VAVendor's Style Number VEVendor Color
		234Product/Service IDM AN 12/13 Identifying number for a product or service
Must Use	LIN03	235Product/Service ID QualifierX ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) ENEuropean Article Number (EAN) (2-5-5-1) SZVendor Alphanumeric Size Code (NRMA) UPU.P.C. Consumer Package Code (1-5-5-1) VAVendor's Style Number VEVendor Color
	LIN04	234Product/Service IDX AN 1/48 Identifying number for a product or service
		235Product/Service ID QualifierX ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) ENEuropean Article Number (EAN) (2-5-5-1)
	LIN05	
	LIN06	

		SZVendor Alphanumeric Size Code (NRMA) UPU.P.C. Consumer Package Code (1-5-5-1) VAVendor's Style Number VEVendor Color	
		Product/Service IDX Identifying number for a product or service	
LIN07	234	Product/Service ID QualifierX Code identifying the type/source of the descriptive number used in Product/Service ID (234)	AN 1/48
LIN08	235	ENEuropean Article Number (EAN) (2-5-5-1) SZVendor Alphanumeric Size Code (NRMA) UPU.P.C. Consumer Package Code (1-5-5-1) VAVendor's Style Number VEVendor Color	ID 2/2
		Product/Service IDX Identifying number for a product or service	
		Product/Service ID QualifierX Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
LIN09	234	ENEuropean Article Number (EAN) (2-5-5-1) SZVendor Alphanumeric Size Code (NRMA)	AN 1/48
LIN10	235	UPU.P.C. Consumer Package Code (1-5-5-1) VAVendor's Style Number VEVendor Color	ID 2/2
		Product/Service IDX Identifying number for a product or service	
LIN11	234		AN 1/48

Segment: **QTY** Quantity
Position: 320
Loop: QTYOptional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity information
Syntax Notes:
1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
1 QTY04 is used when the quantity is non-numeric.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element Name</u> Attributes
Must Use	QTY01	673 Quantity QualifierM ID 2/2 Code specifying the type of quantity 33Quantity Available for Sale (stock quantity)
Must Use	QTY02	380 QuantityX R 1/15 Numeric value of quantity

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level:
Usage: Summary
Max Use: Optional (Must Use)
Purpose: 1
Syntax Notes: To transmit a hash total for a specific element in the transaction set
 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
Must Use	CTT01	354Number of Line Items Total number of line items in the transaction set	O N0 1/6

Segment: SE Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
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)

Syntax Notes:
Semantic Notes:
Comments:

1 SE is the last segment of each transaction set.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>
	<u>Des.</u>	<u>Element Name</u> <u>Attributes</u>
Must Use	SE01	96Number of Included Segments M N0 1/10 Total number of segments included in a transaction set including ST and SE segments
Must Use	SE02	329Transaction Set Control Number M AN 4/9 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Segment: **GE** Functional Group Trailer
Position: 030
Loop:
Level:
Usage: Summary
Max Use: Mandatory
Purpose: 1
Syntax Notes: To indicate the end of a functional group and to provide control information
Semantic Notes:

- Comments:**
- 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.
 - 1 The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Data Element Summary

	Ref. Des.	Data Element Name	Attributes
Must Use	GE01	97Number of Transaction Sets Included	M N0 1/6
		Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	
Must Use	GE02	28Group Control Number	M N0 1/9
		Assigned number originated and maintained by the sender	

Segment: **IEA** Interchange Control Trailer
Position: 040
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	
	<u>Des.</u>	<u>Element Name</u>	<u>Attributes</u>
Must Use	IEA01	I16Number of Included Functional Groups	M N0 1/5
		A count of the number of functional groups included in an interchange	
Must Use	IEA02	I12Interchange Control Number	M N0 9/9
		A control number assigned by the interchange sender	