



**BOOKNET
CANADA**

**Unified CBISAC Version
EDI Advanced Shipment Notice
856 - 004010**

Revised June 2010

Version 1.1

Prepared by: BookNet Canada

Distribution: Industry-wide

Table of Contents

Table of Contents	1
Change Log	1
May 15 2005 (Doug Minett):	2
EDI Requirements and Notes	3
ISA Segment	4
GS Segment	5
ST Segment	6
BSN Segment	7
<i>DTM Segment</i>	8
HL Segment	9
TD1 Segment	9
TD5 Segment	11
REF Segment (Bill of Lading Number)	12
REF Segment (Packing Slip ID)	13
N1 Segment (Ship To)	14
N1 Segment (Ship From)	15
HL Segment	16
PRF Segment	17
HL Segment	18
MAN Segment	19
HL Segment	20
LIN Segment	21
SN1 Segment	23
PID Segment	24
CTT Segment	25
SE Segment	26
GE Segment	27
IEA Segment	28
Sample Book ASN	29

Change Log

July 10, 2002:

ship to N103/N104 changed to use SAN

May 13, 2002:

contacts updated

May 15 2005 (Doug Minett):

ISA: clarified meaning of ISA06 and ISA08 (mailbox ID not SAN).
corrected version # in ISA12 to 00401.

GS: clarified meaning of GS02 and GS03 (mailbox ID not SAN)

BSN: cosmetic cleanup

DTM: cosmetic cleanup

REF: added cross-reference note.

N1: corrected erroneous element lengths. Non-SAN qualifiers continue to be supported for non-book vendors in the 'SF' loop.

LIN: Note was added to describe item identifier options and provide warning regarding implementation. Explicit support for ISBN -10, ISBN-13/EAN, EAN/UCC-14 (GTIN-14), and UPC added. Various element length errors were corrected.

SN1: removed support for 'CS' (case) shipment quantity qualifier. Not consistent with other documents.

CTT: switch CTT01 to # of HL segments (from # of LIN segments). clarified that CTT02 hash total was sum of SN1 quantities.

Sample: updated sample to correct errors and reflect changes in specification.

May 31, 2005 (Doug Minett):

N1: Non-SAN qualifier support re-added to 'ST' loop as non-recommended alternative.

LIN: Explicit support for optional alternate identifier of ISBN-10, ISBN-13/EAN, EAN/UCC-14 (GTIN-14), and UPC added.

June 23, 2010 (Noah Genner):

HL: Added 'T' as code to denote pallet/tare level

MAN: Added note about SSCC numbers.

EDI Requirements and Notes

Segments and elements highlighted in bold are mandatory, while segments and elements in italics are optional.

Element Length: ISA segment contains fixed length elements. All other segments may have fixed or variable length elements.

If a segment is (OPTIONAL—REQUIRED) then it may or may not be sent but if sent then consider it a mandatory field as far as processing is concerned. For example if a DTM segment is sent with a cancel date then this segment must be processed.

**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

ISA Segment

Example: ISA*00* *00* *ZZ*SND MB ID *ZZ*RCV MB ID
*000831*1055*U*00401*000000001*0*P*

Element	Value	Length	Comment
. ISA01	00	2	'00'
. ISA02		10	' '
. ISA03	00	2	'00'
. ISA04		10	' '
. ISA05	sender mailbox qualifier	2	'ZZ' Pubnet
. ISA06	sender mailbox ID	15	sender mailbox ID
. ISA07	receiver mailbox qualifier	2	'ZZ' Pubnet
. ISA08	receiver mailbox ID	15	receiver mailbox ID
. ISA09	date	6	yymmdd
. ISA10	time	4	hhmm
. ISA11	U	1	'U' ISA standard ID
. ISA12	00401	5	'00401' ISA version ID
. ISA13	ISA control number	9	
. ISA14	0	1	'0'
. ISA15	P	1	'P' production 'T' test
. ISA16	'	1	'"' sub element separator

856 - Version 4010**Advanced Shipment Notice
(MANDATORY)****GS Segment**

Example: GS*SH*SND MB ID*RCV MB ID*20000930*1105*1001*X*004010

Element	Value	Length	Comment
. GS01	functional identifier code	2	'SH' advanced ship notice
. GS02	sender mailbox ID	2/15	sender mailbox ID
. GS03	receiver mailbox ID	2/15	receiver mailbox ID
. GS04	date	8	ccyymmdd
. GS05	time	4	hhmm
. GS06	GS control number	1/9	
. GS07	X	1	'X' standard
. GS08	004010	1/12	'004010' version



**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

ST Segment

Example: ST*856*0001

Element	Value	Length	Comment
. ST01	856	3	'856'
. ST02	ST control number	1/9	

856 - Version 4010**Advanced Shipment Notice
(MANDATORY)****BSN Segment**

Purpose: To indicate the beginning of the advanced shipment notice and transmit identifying numbers and dates.

Example: BSN*00*1234567*20000930*1105*0001

Element	Value	Length	Comment
. BSN01	00	2	'00' original
. BSN02	ASN ID	2/30	ASN #
. BSN03	ASN date	8	ccyymmdd format
. BSN04	ASN time	4	hhmm format
. BSN05	0001	4	document structure: shipment/order/pack/item
. BSN06	not used		
. BSN07	not used		

856 - Version 4010**Advanced Shipment Notice
(OPTIONAL--REQUIRED)****DTM Segment**

Purpose: To indicate the ship date of the advanced shipment notice.

*Example: DTM*011*20000930*

Element	Value	Length	Comment
<i>. DTM01</i>	<i>date qualifier</i>	<i>3</i>	<i>'011' shipped date</i>
<i>. DTM02</i>	<i>shipped date</i>	<i>8</i>	<i>ccyymmdd format</i>
<i>. DTM03</i>	<i>not used</i>		
<i>. DTM04</i>	<i>not used</i>		
<i>. DTM05</i>	<i>not used</i>		
<i>. DTM06</i>	<i>not used</i>		

**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

HL Segment

Purpose: To indicate the shipment hierarchical level.

Example: HL*1**S

Element	Value	Length	Comment
. HL01	1	1/12	'1'
. HL02	not used		
. HL03	S	1/2	'S' shipment level
. HL04	not used		

**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

TD1 Segment

Purpose: The TD1 segment is used to specify transportation details of the shipment relative to commodity, quantity, and weight.



Example: TD1*CNT25*5****G*50*KG

Element	Value	Length	Comment
. TD101	CNT25	3/5	packaging code 'CNT25'=corrugated or solid carton 'PLT94'=wooden pallet packaging quantity
. TD102	5	1/7	
. TD103	not used		
. TD104	not used		
. TD105	not used		
. TD106	G	1/2	<i>weight type qualifier</i>
. TD107	50	1/10	<i>weight</i>
. TD108	<i>weight measure</i>	2	<i>weight measurement qualifier 'KG' kilograms 'LB' pounds</i>
. TD109	not used.		
. TD110	not used		

856 - Version 4010
**Advanced Shipment Notice
(MANDATORY)**
TD5 Segment

Purpose: The TD5 segment is used to identify the carrier of the shipment. Example: TD5****M*TRUCKING COMPANY

Element	Value	Length	Comment
. TD501	not used		
. TD502	not used		
. TD503	not used		
. TD504	type of carrier code	1/2	'M' motor common carrier 'A' air 'ZZ' mutually defined
. TD505	carrier name	1/35	
. TD506	not used		
. TD507	not used		
. TD508	not used		
. TD509	not used.		
. TD510	not used		
. TD511	not used		
. TD512	not used		
. TD513	not used		
. TD514	not used		
. TD515	not used.		

856 - Version 4010**Advanced Shipment Notice
(MANDATORY)****REF Segment (Bill of Lading Number)**

Purpose: This REF segment is used to indicate the bill of lading number of the shipment.

Example: REF*BM*12345678

Element	Value	Length	Comment
. REF01	BM	2	'BM' bill of lading number
. REF02	bill of lading #	1/30	
. REF03	not used		
. REF04	not used		
. REF05	not used		
. REF06	not used		

856 - Version 4010**Advanced Shipment Notice
(MANDATORY)****REF Segment (Packing Slip ID)**

Purpose: This REF segment is used to indicate the packing slip number of the order. *This reference is used for cross-referencing the 856 with the associated 810.*

Example: REF*PK*10112345

Element	Value	Length	Comment
. REF01	PK	2	'PK' packing slip number
. REF02	packing slip #	1/30	
. REF03	not used		
. REF04	not used		
. REF05	not used		
. REF06	not used		
. REF07	not used		
. REF08	not used		
. REF09	not used		

856 - Version 4010
**Advanced Shipment Notice
(MANDATORY)**
N1 Segment (Ship To)

Purpose: The N1 segment will identify the Ship To Location for the order. Example: N1*ST**15*1186213

Element	Value	Length	Comment
. N101	identifier code	2	'ST' ship to
. N102	not used	1/35	
. N103	ship to ID qualifier code	1/2	'15' SAN (preferred) '1' DUNS '12' phone '14' EAN/UCC location code prefix 'ZZ' user defined
. N104	ship to ID	2/20	ship to SAN
. N105	not used		
. N106	not used		

856 - Version 4010
**Advanced Shipment Notice
(MANDATORY)**
N1 Segment (Ship From)

Purpose: The N1 segment will identify the Ship-From location for the shipment. Example: N1*SF*VENDOR NAME* 15*1234567

Element	Value	Length	Comment
. N101	identifier code	2	'SF' ship from
. N102	ship from name	1/35	
. N103	ship from ID qualifier code	1/2	'15' SAN (preferred) '1' DUNS '12' phone '14' EAN/UCC location code prefix 'ZZ' user defined
. N104	ship from ID code	2/20	ship from ID
. N105	not used		
. N106	not used		



**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

HL Segment

Purpose: To indicate the order hierarchical level.

Example: HL*2*1*O

Element	Value	Length	Comment
. HL01	hierarchical #	1/12	increases by one for each new order, carton and item
. HL02	1	1/12	'1'
. HL03	O	1/2	'O' order level
. HL04	not used		

856 - Version 4010**Advanced Shipment Notice
(MANDATORY)****PRF Segment**

Purpose: To indicate the *default* purchase order number. This purchase order # can be overridden at the line level (see LIN at item level).

Example: PRF*1111111***20000831

Element	Value	Length	Comment
. PRF01	purchase order #	1/22	
. PRF02	not used		
. PRF03	not used		
. PRF04	purchase order date	8	ccyymmdd format
. PRF05	not used		
. PRF06	not used		
. PRF07	not used		

**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

HL Segment

Purpose: To indicate the pack/carton or pallet hierarchical level.

Example: HL*3*2*P

Element	Value	Length	Comment
. HL01	hierarchical #	1/12	increases by one for each new order, pallet, carton and item
. HL02	hierarchical parent #	1/12	hierarchical # from order from which this carton is for
. HL03	P or T	1/2	'P' pack level
. HL04	not used		'T' Pallet/Tare level

856 - Version 4010**Advanced Shipment Notice
(MANDATORY)****MAN Segment**

Purpose: To indicate the pack or carton hierarchical level.

Example: MAN*CA*10112345678901234567

Element	Value	Length	Comment
. MAN01	CA	1/2	'CA' shipper assigned carton number
. MAN02	carton number	1/48	carton number
. MAN03	not used		
. MAN04	not used		
. MAN05	not used		
. MAN06	not used		

NOTE: While the more general 'CA' qualifier is used here it is recommended that suppliers use an SSCC number whenever possible. SSCC number are 18 digits.

Get more information here => www.bisg.org/docs/shipping_label_guidelines.pdf

**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

HL Segment

Purpose: To indicate the item hierarchical level.

Example: HL*4*3*I

Element	Value	Length	Comment
. HL01	hierarchical #	1/12	increases by one for each new order, carton and item hierarchical # from order or carton
. HL02	hierarchical parent #	1/12	from which this item is for 'I' item level
. HL03	I	1/2	
. HL04	not used		

856 - Version 4010
**Advanced Shipment Notice
(MANDATORY)**
LIN Segment

Purpose: To specify the identifying code of the item (either a UPC # or ISBN #). There will be one occurrence for each line item. If the purchase order for the item is different than the default purchase order number specified in the *order level* PRF, it *must* be specified here.

Example: LIN*1*IB*1020304050*EN*9791111111111*PO*12345b

NOTE: Either an ISBN-10 or an ISBN-13/EAN or a EAN/UCC -14 (GTIN-14) or a UPC is mandatory. More than one main identifier may be sent (eg. ISBN-10 and ISBN-13/EAN), but only one will be used. *It is essential to check with a trading partner whether a particular identifier is supported prior to implementation.*

Element	Value	Length	Comment
. LIN01	Line Number	1/20	
. LIN02	main item ID qualifier	2	mandatory: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14 'UP' UPC
. LIN03	main item ID	1/40	main item ID #
. LIN04	alt 1 ID qualifier	2	optional/required: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14 'UP' UPC 'VN' Vendor 'MG' Manufacture Code 'PO' PO#
. LIN05	alt 1 ID	1/40	alternate 1 ID #
. LIN06	alt 2 ID qualifier	2	optional/required: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14



			'UP' UPC
			'VN' Vendor
			'MG' Manufacture Code
			'PO' PO#
. LIN07	alt 2 ID	1/40	alternate 2 ID #
. LIN08	alt 3 ID qualifier	2	optional/required:
			'IB' ISBN-10
			'EN' ISBN-13/EAN
			'UK' EAN/UCC-14
			'UP' UPC
			'VN' Vendor
			'MG' Manufacture Code
			'PO' PO#
. LIN09	alt 3 ID	1/40	alternate 3 ID #
. LIN10	not used		
. LIN11	not used		
. LIN12	not used		
. LIN13	not used		
. LIN14	not used		
. LIN15	not used		
. LIN16	not used		
. LIN17	not used		
. LIN18	not used		
. LIN19	not used		
. LIN20	not used		
. LIN21	not used		
. LIN22	not used		
. LIN23	not used		
. LIN24	not used		
. LIN25	not used		
. LIN26	not used		
. LIN27	not used		
. LIN28	not used		
. LIN29	not used		
. LIN30	not used		
. LIN31	not used		

**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

SN1 Segment

Purpose: To specify the quantity of the item shipped.

Example: SN1**500*EA

Element	Value	Length	Comment
. SN101	not used		
. SN102	shipped quantity	1/10	
. SN103	unit of measure	2	'UN' unit 'EA' each
. SN104	not used		
. SN105	not used		
. SN106	not used		
. SN107	not used		
. SN108	not used		
. SN109	not used		

**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

PID Segment

Purpose: To specify unstructured line item description.

1 occurrence for each line item.

Example: PID*F****BOOK OF THE MONTH

Element	Value	Length	Comment
. PID01	F	1	'F' free form description
. PID02	not used		
. PID03	not used		
. PID04	not used		
. PID05	description	1/80	product description
. PID06	not used		
. PID07	not used		
. PID08	not used		
. PID09	not used		

**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

CTT Segment

Purpose: To provide totals.

Example: CTT*3*500

Element	Value	Length	Comment
. CTT01	# of HL segments	1/6	# of HL segments
. CTT02	hash total	1/10	total of SN1 quantities
. CTT03	not used		
. CTT04	not used		
. CTT05	not used		
. CTT06	not used		
. CTT07	not used		

**856 - Version 4010
Advanced Shipment Notice
(MANDATORY)**

SE Segment

Example: SE*17*0001

Element	Value	Length	Comment
. SE01	number of segments	1/10	number of segments in document including ST and SE segments
. SE02	SE control number	1/9	must match ST control number



856 - Version 4010

**Advanced Shipment Notice
(MANDATORY)**

GE Segment

Example: GE*4*1001

Element	Value	Length	Comment
. GE01	number of documents	1/6	number of documents, number of ST/SE pairs
. GE02	GE control number	1/9	must match GS control number



856 - Version 4010

**Advanced Shipment Notice
(MANDATORY)**

IEA Segment

Example: IEA*1*000000001

Element	Value	Length	Comment
. IEA01	number of envelopes	8	number of GS/GE pairs
. IEA02	IEA control number	9	must match ISA control number

856 - Version 4010**Advanced Shipment Notice****Sample Book ASN**

ISA*00* *00* *ZZ*SND MB ID *ZZ*RCV MB ID
*000930*1105*U*00401*000000001*0*P*'
GS*SH*SND MB ID*RCV MB
ID*20000930*1105*1001*X*004010 ST*856*0001
BSN*00*123456*20000930*1105*0001
DTM*011*20000930
HL*1**S
TD1*CNT25*5****G*50*KG
TD5****M*CARRIER ONE
REF*BM*1111111
REF*PK*123456789012
N1*ST**15*1111111
N1*SF*VENDOR ONE*15*1234567
HL*2*1*O
PRF*987654321***20000831
HL*3*2*P
MAN*CA*10100001901234567890
HL*4*3*I
LIN*1*IB*9876543210
SN1**500*EA
PID*F****TEST BOOK 1
HL*5*3*I
LIN*2*IB*9876543211
SN1**400*EA
PID*F****TEST BOOK 2
HL*6*2*P
MAN*CA*10100002
HL*7*6*I
LIN*3*IB*9876543213*PO*987654322
SN1**100*EA
PID*F****TEST BOOK 3



HL*8*2*P
MAN*CA*10100003
HL*9*8*I
LIN*4*IB*9876543214*PO*987654322
SN1**100*EA
PID*F****TEST BOOK 4
CTT*9*1100
SE*36*0001
GE*1*1001
IEA*1*000000001

