BOOKNET CANADA

Unified CBISAC Version
EDI Advanced Shipment Notice
Cross-docking specification
856 - 004010

Revised May 2005

Version 1.1

Prepared by: BookNet Canada

Distribution: Industry-wide

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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.

N1 (cross dock): added N1 loop for 'FS' (Final Destination) in 'S' HL loop.

N1 (cross dock): added N1 loop for 'FS' (Final Destination) in 'P' HL 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' and 'FS' loops as non-recommended alternatives.

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

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.

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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

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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

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ST Segment

Example: ST*856*0001

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

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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		

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DTM Segment

Purpose: To indicate the ship date of the advanced shipment notice.
Example: DTM*011*20000930

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

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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		

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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**
. TD102	**5**	**1/7**	**packaging quantity**
. TD103	not used		
. TD104	not used		
. TD105	not used		
. TD106	*G*	*1/2*	*weight type qualifier*
. TD107	*50*	*1/10*	*weight*
. TD108	*weight measure*	*2*	*weight measurement qualifier 'KG' kilograms 'LB' pounds*
. TD109	not used.		
. TD110	not used		

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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.		

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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		

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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		

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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		

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N1 Segment (Final Destination)

Purpose: The N1 segment will identify the Final Destination Location for the order.

Example: N1*FS**15*1186213

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

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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		

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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		

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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		

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HL Segment

Purpose: To indicate the pack or carton hierarchical level.
Example: HL*3*2*P

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

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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		

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N1 Segment (Final Destination)

Purpose: The N1 segment will identify the Final Destination Location for the order.
Example: N1*FS**15*1186213

Element	Value	Length	Comment
. N101	**identifier code**	**2**	**'FS' final destination**
. N102	not used	1/35	
. N103	**final dest ID qualifier code**	**1/2**	**'15' SAN**
. N104	**final dest ID**	**2/20**	**final destination SAN**
. N105	not used		
. N106	not used		

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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
. HL02	hierarchical parent #	1/12	hierarchical # from order or carton from which this item is for
. HL03	I	1/2	'I' item level
. HL04	not used		

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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		

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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		

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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		

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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		

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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

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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

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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

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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*FS**15*2222222
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*37*0001
GE*1*1001
IEA*1*000000001
```