



**BOOKNET
CANADA**

**Unified CBISAC Version
EDI Invoice
Cross-docking specification
810 – Version 004010**

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Version 2.0

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Change Log

August 2, 2002:

correct ISS example

July 31, 2002:

correct ISS weight specification

May 13, 2002:

net unit price added in IT104/105

May 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)

CUR: removed note allowing optional use if not CAD. Now mandatory
always.

REF: added cross-reference note.

N1: corrected erroneous element lengths, removed support for non-SAN
qualifiers in 'ST' and 'BT' loops. Non-SAN qualifiers continue to be supported
for non-book vendors in the 'VN' loop.

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

ITD: cosmetic and length error (ITD02) cleanup.

DTM: cosmetic cleanup

IT1: 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.

CTP: cosmetic cleanup.

TXI (TDS loop): cosmetic cleanup

TXI (SAC loop): added as per Indigo requirement.

CTT: cosmetic cleanup.

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 'BT' and 'FS' loops as non-recommended alternatives.

IT1: Explicit support for optional alternate identifier of ISBN-10, ISBN-13/EAN, EAN/UCC-14 (GTIN-14), and UPC added.

SAC: cosmetic cleanup

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.

All totals pertaining to the invoice must be sent: invoice total (TDS) as it would appear on a vendor statement, GST/HST total (TXI), PST total (TXI) if it exists, shipping & handling total (SAC) if it exists.

All line level data must be sent: item quantity (IT1), item ID (IT1), item list price (CTP), and item discount (CTP).

Invoice will be tested as follows for validity: Invoice total (TDS) must reconcile with the sum of the net line totals within .01/line (rounding error) + sum of taxes (TXI) + shipping (SAC). Invoices that fail this test will be considered invalid.

810 - Version 4010
Invoice
(MANDATORY)
ISA Segment

Example: ISA*00* *00* *ZZ*SND MB ID *ZZ*RCV MB ID
*000930*1105*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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Invoice

(MANDATORY)

GS Segment

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

Element	Value	Length	Comment
. GS01	functional identifier code	2	'IN' invoice
. 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

**810 - Version 4010
Invoice
(MANDATORY)**

ST Segment

Example: ST*810*0001

Element	Value	Length	Comment
. ST01	810	3	'810'
. ST02	ST control number	1/9	

810 - Version 4010**Invoice****(MANDATORY)****BIG Segment**

Purpose: To indicate the beginning of the invoice and transmit invoice number and *default* purchase order. It can be overridden at the line detail level (see IT1 at *item level*).

Example: BIG*20000930*1234567**1105

Element	Value	Length	Comment
. BIG01	invoice date	8	ccyymmdd format
. BIG02	invoice number	1/22	
. BIG03	not used		
. BIG04	purchase order #	1/22	default PO #
. BIG05	not used		
. BIG06	not used		
. BIG07	not used		
. BIG08	not used		
. BIG09	not used		
. BIG10	not used		

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Invoice
(MANDATORY)
CUR Segment

Purpose: To indicate the currency used for the prices in the invoice.

Example: CUR*SE*USD

Element	Value	Length	Comment
. CUR01	SE	2	'BY'=Buyer 'SE'=Seller
. CUR02	currency	3	
. CUR03	not used		
. CUR04	not used		
. CUR05	not used		
. CUR06	not used		
. CUR07	not used		
. CUR08	not used		
. CUR09	not used.		
. CUR10	not used.		
. CUR11	not used.		
. CUR12	not used.		
. CUR13	not used		
. CUR14	not used		
. CUR15	not used		
. CUR16	not used		
. CUR17	not used		
. CUR18	not used		
. CUR19	not used.		
. CUR20	not used.		
. CUR21	not used.		

810 - Version 4010**Invoice****(OPTIONAL - REQUIRED)*****REF Segment (Packing Slip ID)***

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

*Example: REF*PK*12345678*

Element	Value	Length	Comment
. REF01	PK	2	'PK' packing slip #
. REF02	packing slip #	1/30	
. REF03	<i>not used</i>		
. REF04	<i>not used</i>		
. REF05	<i>not used</i>		
. REF06	<i>not used</i>		

810 - Version 4010**Invoice****(OPTIONAL - REQUIRED)*****REF Segment (Billing Account Number)***

Purpose: This REF segment is used to indicate the account number under which the invoice is rendered.

*Example: REF*12*12345678*

Element	Value	Length	Comment
. REF01	12	2	'12' account #
. REF02	account #	1/30	
. REF03	<i>not used</i>		
. REF04	<i>not used</i>		
. REF05	<i>not used</i>		
. REF06	<i>not used</i>		

810 - Version 4010**Invoice****(OPTIONAL)*****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	<i>not used</i>		
. REF04	<i>not used</i>		
. REF05	<i>not used</i>		
. REF06	<i>not used</i>		

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Invoice
(MANDATORY)

N1 Segment (Bill To)

Purpose: The N1 segment will identify the Bill-To location for the order.

Example: N1*BT**15*1436008

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

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Invoice
(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		

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Invoice
(MANDATORY)

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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Invoice
(MANDATORY)

N1 Segment (Vendor)

Purpose: The N1 segment will identify the Vendor for the order.

Example: N1*VN**15*1234567

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

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Invoice
(OPTIONAL)
ITD Segment

Purpose: To indicate the terms of sale for the shipment.

Example: ITD*01*3*****30

Element	Value	Length	Comment
. ITD01	terms type code	2	'01' basic
. ITD02	terms basis date code	1/2	'3' invoice date
. ITD03	<i>not used</i>		
. ITD04	<i>not used</i>		
. ITD05	<i>not used</i>		
. ITD06	<i>not used</i>		
. ITD07	terms net days	1/3	days from invoice date
. ITD08	<i>not used</i>		
. ITD09	<i>not used.</i>		
. ITD10	<i>not used.</i>		
. ITD11	<i>not used.</i>		
. ITD12	<i>not used.</i>		
. ITD13	<i>not used</i>		
. ITD14	<i>not used</i>		
. ITD15	<i>not used.</i>		

810 - Version 4010**Invoice****(OPTIONAL)*****DTM Segment***

Purpose: To indicate the ship date of the shipment covered by this invoice.

*Example: DTM*011*20000930*

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

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**Invoice
(MANDATORY)**
IT1 Segment

Purpose: To specify the basic invoice line item data. There will be one occurrence for each line item. If the purchase order number for the item is different than the *default* purchase order number specified in the *invoice level* BIG, it *must* be specified here.

Example: IT1*1*25*EA*10.36*NT*IB*1020304050*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
. IT101	<i>line number</i>	1/20	
. IT102	quantity invoiced	1/10	
. IT103	unit of measure	2	'UN' unit 'EA' each
. IT104	unit price	1/17	unit price
. IT105	unit price qualifier	2	'NT' net price
. IT106	main ID qualifier	2	mandatory: 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14 'UP' UPC
. IT107	main item ID	1/40	main ID #
. IT108	<i>alt 1 ID qualifier</i>	2	<i>optional/required:</i> 'IB' ISBN-10 'EN' ISBN-13/EAN 'UK' EAN/UCC-14 'UP' UPC 'VN' Vendor 'MG' Manufacture Code

. IT109	alt 1 ID	1/40	'PO' PO#
. IT110	alt 2 ID qualifier	2	alternate 1 ID #
			optional/required:
			'IB' ISBN-10
			'EN' ISBN-13/EAN
			'UK' EAN/UCC-14
			'UP' UPC
			'VN' Vendor
			'MG' Manufacture Code
			'PO' PO#
. IT111	alt 2 ID	1/40	alternate 2 ID #
. IT112	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#
. IT113	alt 3 ID	1/40	alternate 3 ID #
. IT114	not used		
. IT115	not used		
. IT116	not used		
. IT117	not used		
. IT118	not used		
. IT119	not used		
. IT120	not used		
. IT121	not used		
. IT122	not used		
. IT123	not used		
. IT124	not used		
. IT125	not used		

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Invoice
(MANDATORY)

CTP Segment

Purpose: The CTP segment will specify invoice price and discount.

Example: CTP**SLP*12.95***DIS*.8

Element	Value	Length	Comment
. CTP01	not used		
. CTP02	unit price qualifier	3	'SLP' suggested list
. CTP03	unit price	1/17	unit price
. CTP04	not used		
. CTP05	not used		
. CTP06	price multiplier qualifier	3	'DIS' discount multiplier
. CTP07	multiplier	1/10	multiplier of .8 indicates 20% discount, .6 indicates 40%
. CTP08	not used		
. CTP09	not used		
. CTP10	not used		
. CTP11	not used		

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Invoice
(OPTIONAL)

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		

810 - Version 4010**Invoice****(MANDATORY)****TDS Segment**

Purpose: To indicate the invoice total amount. Do NOT use decimal. Example amount would indicate 2099.31.

Example: TDS*209931

Element	Value	Length	Comment
. TDS01	invoice total	1/15	decimal implied <i>only</i>
. TDS02	not used		
. TDS03	not used		
. TDS04	not used		

810 - Version 4010**Invoice****(OPTIONAL - REQUIRED)****TXI Segment**

Purpose: To indicate the total invoice amount of GST or HST.

Example: TXI*GS*140.45

Element	Value	Length	Comment
. TXI01	tax type code	2	'GS' GST/HST
. TXI02	total GST amount	1/15	decimal is required
. TXI03	not used		
. TXI04	not used		
. TXI05	not used		
. TXI06	not used		
. TXI07	not used		
. TXI08	not used		
. TXI09	not used		
. TXI10	not used		



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Invoice

(OPTIONAL REQUIRED)

TXI Segment

Purpose: To indicate the total invoice amount of PST.

Example: TXI*SP*120.44

Element	Value	Length	Comment
. TXI01	tax type code	2	'SP' state/prov tax
. TXI02	total PST amount	1/15	decimal is required
. TXI03	not used		
. TXI04	not used		
. TXI05	not used		
. TXI06	not used		
. TXI07	not used		
. TXI08	not used		
. TXI09	not used		
. TXI10	not used		

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Invoice
(OPTIONAL)
CAD Segment

Purpose: The CAD segment is used to identify the carrier of the shipment.

Example: CAD*M****TRUCKING COMPANY

Element	Value	Length	Comment
. CAD01	type of carrier code	1/2	'M' motor common carrier 'A' air
. CAD02	not used		
. CAD03	not used		
. CAD04	not used		
. CAD05	carrier name	1/35	
. CAD06	not used		
. CAD07	not used		
. CAD08	not used		
. CAD09	not used		

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Invoice
(OPTIONAL - REQUIRED)
SAC Segment

Purpose: To indicate an invoice shipping amount. Do NOT use decimal. Example amount would indicate 30.99.

Example: SAC*C*G830***3099*****06

Note: When SAC segment is sent, SAC loop TXI segment must also be sent. See below.

Element	Value	Length	Comment
. SAC01	allowance or charge	1	'C' charge
. SAC02	service/allowance code	4	'G830' shipping & handling
. SAC03	not used		
. SAC04	not used		
. SAC05	shipping total amount	1/15	decimal implied only
. SAC06	not used		
. SAC07	not used		
. SAC08	not used		
. SAC09	not used.		
. SAC10	not used.		
. SAC11	not used.		
. SAC12	method of handling	2	'06' paid by customer
. SAC13	not used		
. SAC14	not used		
. SAC15	not used.		



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Invoice

(OPTIONAL - REQUIRED)

TXI Segment

Purpose: To indicate the total invoice amount of GST or HST.

Example: TXI*GS*2.10

Note: This TXI segment is required only when a SAC shipping segment is sent. This segment will contain the GST amount *for shipping only*.

Element	Value	Length	Comment
. TXI01	tax type code	2	'GS' GST/HST
. TXI02	shipping GST amount	1/15	decimal is required
. TXI03	not used		
. TXI04	not used		
. TXI05	not used		
. TXI06	not used		
. TXI07	not used		
. TXI08	not used		
. TXI09	not used		
. TXI10	not used		



**810 - Version 4010
Invoice
(OPTIONAL)**

ISS Segment

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

Example: ISS*5*CT*50*KG

Element	Value	Length	Comment
. ISS01	quantity	1/10	quantity
. ISS02	quantity qualifier	2	quantity qualifier 'CT' carton 'PL' pallet
. ISS03	weight	1/10	weight
. ISS04	weight qualifier	2	weight qualifier 'KG' kilograms 'LB' pounds
. ISS05	not used		
. ISS06	not used		
. ISS07	not used		
. ISS08	not used		



**810 - Version 4010
Invoice
(MANDATORY)**

CTT Segment

Purpose: To provide totals.
Example: CTT*3*500

Element	Value	Length	Comment
. CTT01	# of line items	1/6	# of IT1 segments
. CTT02	hash total	1/10	total of IT1 quantities
. CTT03	not used		
. CTT04	not used		
. CTT05	not used		
. CTT06	not used		
. CTT07	not used		

**810 - Version 4010
Invoice
(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

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Invoice
(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

**810 - Version 4010
Invoice
(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

**810 - Version 4010
Invoice****Sample Book Invoice**

ISA*00* *00* *ZZ*SND MB ID *ZZ*RCV MB ID
*000930*1105*U*00401*000000001*0*P*'
GS*IN*SND MB ID*RCV MB ID*20000930*1105*1001*X*004010
ST*810*0001
BIG*20000930*1234567**1105
CUR*SE*USD
REF*PK*12345678
REF*BM*12345678
N1*BT**PURCHASER NAME** 15*1234567
N1*ST**15*1111111
N1*FS**15*2111111
N1*VN**VENDOR NAME** 15*1234567
ITD*01*3*****30
*DTM*011*20000930*
IT1*1*25*EA*10.36*NT*IB*1020304050*PO*12345B
CTP**SLP*12.95***DIS*.8
PID*F****BOOK OF THE MONTH
TDS*32884
TXI*GS*18.13
TXI*SP*20.72
SAC*C*G830***3099*****06
TXI*GS*2.17
CTT*1*25
SE*21*0001
GE*1*1001
IEA*1*000000001

