



Canada to US

Bill of Lading

EDI 404

Version 004010

US Bureau of Customs and Border Protection (CBP) requires electronic cargo information for rail shipments imported to the United States, as mandated by the US Trade Act of 2002.

CBP specifies mandatory transborder data requirements:

1. Equipment initial/number
2. Actual shipper name, address, city, province/state
3. Final consignee, address, city, province/state
4. Importer name, address, city, province/state
5. Customs broker
6. Total number of pieces and package type
7. Complete and accurate description of goods
8. Total weight and unit of measure
9. Invoice value and currency *
10. Country of origin of the goods
11. Complete route
12. Seal numbers *

These critical transborder data must be included in all bills of lading along with standard shipment information.

* Invoice value, currency and Seal numbers required for shipments moving in bond in US. Not required if customs cleared at border.

Additional requirement for exports from the US (Transportation Exportation bond)

1. US port of exit
2. Vessel name if destined overseas
3. Final port of destination and country

The following EDI 404 bill of lading example highlights the data mapping to meet the requirements of the US Trade Act of 2002. Please also reference the Rail Carrier Shipment Information guide to ANSI X12 Standards for bill of lading.

The Rail Carrier Shipment Information guide to ANSI X12 Standards for bill of lading specifies data element name, description, number, type, and minimum/maximum lengths of data:

Type	Symbol
Numeric	Nn (n indicates number of decimal places).
Decimal Number	R
Identifier	ID
String	AN
Date	DT (CCYYMMDD)
Time	TM (HHMM)

EDI 404 with mandatory transborder data highlighted in bold red

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ISA*00*                *00*                *ZZ*SILVER    *02*CN
*040412*1122*U*00403*001054421*1*T*
  GS*SR*SILVER*CN*20040412*1122*1107*X*004010
    ST*404*105442100
      BX*00*R*PP**CN*L*B****10**2
      BNX*A**S
      M3*R*20040412*1122
      N9*BM* 48103**20040412*1122
      N9*PO*24002754
      N9*WM*911
      N9*HS*4805.10.00007
      N7*SLGG*10705*101464*N*****RR
      M7*W-664647*W-664648
      F9**TORONTO*ON
      D9**MEMPHIS*TN
      N1*SH*SILVER STONE CANADA
      N3*851 GRAND STREET
      N4*TORONTO*ON*L4K1B9
      N1*CN*BIG RIVER USA INC
      N3*111 INDUSTRIAL AVENUE
      N4*MEMPHIS*TN*38103
      N1*CB*US CUSTOMS BROKER SERVICES
      N4*PORT HURON*MI
      R2*CN*S
      LX*1
      L5*1*CORRUGATING MEDIUM PAPER*2631119*T
      L0*1***101464*N***20*ROL
      X1**AJR 773001*C***CA***20*22822.45**RL
      XH*USD
      SE*27*00149001
      GE*1*6280377
      IEA*1*000026035
  
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Detailed Description of EDI Mapping

ISA Segment: Interchange Control Header

ISA*00* *00* *ZZ*SILVER *02*CN *040412*1122
***U*00403*001054421*1*T*_**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
ISA01	Authorization Information Qualifier (Value = 00)	101	ID	2/2
ISA02	Authorization Information Value = Spaces	101	AN	10/10
ISA03	Security Information Qualifier (Value = 00)	103	ID	2/2
ISA04	Security Information (Value = Spaces)	104	AN	10/10
ISA05	Interchange ID Qualifier (Value = ZZ)	105	ID	2/2
ISA06	Interchange Sender ID	106	ID	15/15
ISA07	Interchange ID Qualifier (Value = 02)	105	ID	2/2
ISA08	Interchange Receiver ID (Value = CN)	107	ID	15/15
ISA09	Interchange Date (Date = YYMMDD)	108	ID	6/6
ISA10	Interchange Time (Time = HHMM)	109	TM	4/4
ISA11	Interchange Standards ID (Value = U)	110	ID	1/1
ISA12	Interchange Version ID (Value = 00200)	111	ID	5/5
ISA13	Interchange Control Number (Number assigned by sender)	112	NO	9/9
ISA14	Acknowledgment Request (0 = None, 1 = requested)	113	ID	1/1
ISA15	Test Indicator (T = Test, P = Production)	114	ID	1/1
ISA16	Subelement Separator (Value = hex 15)	115	AN	1/1

GS Segment: Functional Group Header

GS*SR*SILVER*CN*20040412*1122*1107*X*004010

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
GS01	Functional Identifier Code (SR=Rail Carrier Shipment Information)	479	ID	2/2
GS02	Application Sender's Code	142	AN	2/15
GS03	Application Receiver's Code (CN=Canadian National)	124	AN	2/15
GS04	Date (CCYYMMDD)	373	DT	8/8
GS05	Time (HHMM)	337	TM	4/6
GS06	Group Control Number (Assigned number originated and maintained by the sender)	28	N0	1/9
GS07	Responsible Agency Code (X=Accredited Standards Committee X12)	455	ID	1/2
GS08	Version / Release / Industry Identify	480	AN	1/12

ST Segment: Transaction Set Header

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

ST*404*105442100

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
ST01	Transaction Set Identifier Code (404=Rail Carrier Shipment Information Bill of Lading)	143	ID	3/3
ST02	Transaction Set Control Number (Sequential control number generated by the sender)	329	AN	4/9

BX Segment: General Shipment Information

BX*00*R*PPCN*L*B****10**2**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
BX01	Transaction Set Purpose Code (00=Original)	353	ID	2/2
BX02	Transportation Method/Type Code (R=Rail)	91	ID	1/2
BX03	Shipment Method Of Payment (PP=Prepaid)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN=CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L=Pounds)	188	ID	1/1
BX07	Shipment Qualifier (B=Bill of Lading for Individual Shipment)	147	ID	1/1
BX11	Customs Documentation Handling Code (10=Proforma entered – B13 Not Required) (30=Proforma with Broker at Port of exit - B13 Not Required)	501	ID	2/2
BX13	Goods and Services Tax Reason Code (2=Outbounds Goods and Services Tax Declaration to USA only)	714	ID	1/1

BNX Segment: Rail Shipment Information

BNX*AS**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
BNX01	Shipment Weight Code (R=Rail Carrier Scale Weight) (A=Weight Agreement)			
BNX03	Billing Code (S=Single Shipment Billing)	11	ID	1/1

M3 Segment: Release

Indicates whether shipment is to be released for movement when the transmission is received or will be released through other means.

M3*R*20040412*1122

Element Seg	Element Name	Data Element	Data Type	Min/Max
M301	Release Code	132	ID	1/1
M302	Release Date (CCYYMMDD)	373	DT	8/8
M303	Release Time (HHMM, 24 hour clock)	337	TM	4/6

N9 Segment: Reference Number

Allows Reference Numbers to be sent to CN. At least one N9 segment containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and remittance/Payment. The complete list of qualifiers (N901 data element 128) is lengthy. Your CN EDI Customer Consultant can provide you with the appropriate qualifier for your reference number.

N9*BM* 48103**20040412*1122

N9*PO*24002754

N9*WM*911

N9*HS*4805.10.00007

N9*72*58808*HACINOHE JAPAN

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
N901	Reference Number Qualifier BM=Bill of Lading No. PO=Purchase Order No. WM=Weight Agreement HS=Harmonized code 72=Schedule Reference Number	128	ID	2/2
N902	Reference Number (Max 11 characters for B/L no (BM))	127	AN	1/30
N904	Date	373	DT	8/8
N905	Time	337	TM	4/6

CM Segment: Cargo Manifest

CM*17E*L*SEATTLE*20040630***OCEAN EXPRESS**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
CM01	Voyage Number	55	AN	2/10
CM02	Port or Terminal Function Code	115	ID	1/1
CM03	Port Name	114	AN	2/24
CM04	Date	373	DT	8/8
CM09	Vessel Name	182	AN	2/28

N7 Segment: Equipment Details

N7*SLGG*10705*101464*N***RR**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
N701	Equipment Initial	206	AN	1/4
N702	Equipment Number	207	AN	1/10
N703	Weight	81	R	1/8
N704	Weight Qualifier (N=Actual net weight E= Estimated Weight)	187	ID	1/2
N711	Equipment Description Code (RR=Rail Car)	40	ID	2/2

M7 Segment: Seal Numbers

M7*W-664647*W-664648

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
M701	Seal Number	225	AN	2/15

M12Segment: In-bond Identifying Information (required for T&E bond)

M12*622304**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
M1201	Entry Type Code (62 = Transportation Exportation)	581	ID	2/2
M1203	Location Identifier (Schedule D, e.g. 2304 = Laredo TX)	310	AN	1/30

F9 Segment: Origin

Indicates the origin of the shipment, the point from which it is shipped. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standards available from the National Transportation Agency (Canada). CN can provide spelling for your stations.

F9TORONTO*ON**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
F902	Origin Station	101	AN	2/19
F903	State or Province Code	156	ID	2/2

D9 Segment: Destination

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9MEMPHIS*TN**

D902	Destination Station	300	AN	2/19
D903	State or Province Code	156	ID	2/2

N1 Segment: Name

Associated to N3 and N4 segments below. N1, N3 and N4 segments are repeated for the consignee and any other Additional Parties to the shipment.

N1*SH*SILVER STONE CANADA

N1*CN*BIG RIVER USA INC

N1*CB*TRANS-BORDER CUSTOM SERVICES

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code SH=Shipper CN=Consignee IM=Importer (if other than Consignee) CB=Customs Broker C1=Care of Party	98	ID	2/2
N102	Name	93	AN	1/27

N3 Segment: Address

N3*851 GRAND STREET

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
N301	Address Information	166	AN	1/30
N302	Address Information	166	AN	1/30

N4 Segment: City and Province Code

N4* TORONTO*ON*L4K1B9

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
N401	City Name	19	AN	2/19
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/9

R2 Segment: Route Information

R2*CN*S

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
R201	Standard Carrier Alpha Code (SCAC) (CN=Canadian National)	140	ID	2/4
R202	Routing Sequence Code (S=Origin Carrier, Shipper's Routing (Rail) 1=1st Carrier After Origin Carrier) 2=2 nd Carrier after origin carrier D=Delivering Carrier (switch)	133	ID	1/2
R203	Rule 260 Junction Name	19	AN	2/5
R206	Transportation Method/Type Code (R=Rail)	91	ID	1/2

LX Segment: Assigned Number

LX*1

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LX01	Assigned Number (Number assigned for differentiation within a transaction set)	554	N0	1/6

L5 Segment: Commodity Description

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1CORRUGATING MEDIUM PAPER*2631119*T**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
L501	Lading Line Item Number	213	N0	1/3
L502	Lading Description	79	AN	1/50
L503	Commodity Code	22	AN	1/16
L504	Commodity Code Qualifier (T= STCC Code)	23	ID	1/1

L0 Segment: Line Item, Quatity and Weight

L0*1*101464*N***20*ROL**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
L001	Lading Line Item Number	213	N0	1/3
L004	Weight	81	R	1/8
L005	Weight Qualifier (N=Actual weight)	187	ID	1/2
L008	Lading Quatity	80	N0	1/7
L009	Packaging Form Code ROL=Rolls PKG=Packages	211	ID	3/3

X1 Segment:Export License REQUIRED FOR TRANSBORDER SHIPMENT

X1TMK 997731*C***CA***20*22822.45**RL**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
X101	Licensing Agency Code	83	ID	1/1
X102	Export License Number	50	AN	1/15
X103	Export License Status Code	51	ID	1/1
X107	Country of Origin of Goods	26	ID	2/3
X110	Lading Quantity	80	N0	1/7
X111	Lading Value	148	R	2/9
X113	Unit or Basis for Measure (RL = Roll)	355	ID	2/2

XH Segment: Pro Forma - B13 Information

XH*USD

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
XH01	Currency Code	100	ID	3/3

SE Segment: Transaction Set Trailer

SE*27*00149001

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
SE01	Number of Included Segments (Includes ST and SE segments)	96	N0	1/10
SE02	Transaction Set Control Number (repeated from ST segment ST02)	329	AN	4/9

GE Segment: Functional Group Trailer

GE*1*6280377

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
GE01	Number of Transaction Sets Included	97	N0	1/6
GE02	Group Control Number (Repeated from GS Segment GS06)	28	N0	1/9