



Canada to USA

Bill of Lading

EDI 404

Version 007010

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, postal code/zip code**
- 3. Final consignee, address, city, province/state, postal code/zip code**
- 4. Importer name, address, city, province/state, postal code/zip code**
- 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.

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

ISA*00* *00* *ZZ*SILVER *02*CN
*171228*1336*U*00701*001054421*1*T_
GS*SR*SILVER*CN*20171228*1336*1107*X*007010
ST*404*105442100
BX*00*R*11CN*L*B****10**2**
BNX*A**S
M3*R*20171228*1336
N9*BM*48103**20171228*1336
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*M5V 1E4
N1*CN*BIG RIVER USA INC
N3*111 INDUSTRIAL AVENUE
N4*MEMPHIS*TN*12345
N1*11*SILVER STONE CANADA
N3*850 GRAND STREET
N4*TORONTO*ON*M5V 1E4
BL*RD*TORONTO*ON**CHGO***CN**
BL*RD*CHGO***MEMPHIS*TN**NS**
N1*XU*US CUSTOMS BROKER SERVICES
N4*PORT HURON*MI*12345
R2*CN*R*CHGO
R2*NS*1
LX*1
L5*1*CORRUGATING MEDIUM PAPER*2631119*T
L0*1*101464*N***20*ROL**
X1AJR 773001*C****CA***20*22822.45**RL**
XH*USD
SE*28*00149001
GE*1*6280377
IEA*1*000026035

Detailed Description of EDI Mapping

ISA Segment: Interchange Control Header

ISA*00* *00* *ZZ*SILVER *02*CN *171228*1336
 *U*00701*001054421*1*T*_

Element Seg	Element Description		Data Element	Data Type	Characters Min/Max
ISA01	Authorization Information Qualifier	I01	ID		2/2
ISA02	Authorization Information (ten spaces)	I02	AN		10/10
ISA03	Security Information Qualifier	I03	ID		2/2
ISA04	Security Information (ten spaces)	I04	AN		10/10
ISA05	Interchange ID Qualifier	I05	ID		2/2
ISA06	Interchange Sender ID (SILVER - fill out field with spaces)	I06	AN		15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID		2/2
ISA08	Interchange Receiver ID (CN- fill out field with spaces)	I07	AN		15/15
ISA09	Interchange Date (YYMMDD)	I08	DT		6/6
ISA10	Interchange Time (HHMM)	I09	TM		4/4
ISA11	Repetition Separator (Suggest “^^”)	I65			1/1
ISA12	Interchange Control Version Number (Value 00701)	I11	ID		5/5
ISA13	Interchange Control Number (a control number assigned by sender)	I12	N0		9/9
ISA14	Acknowledgment Requested (0 = none requested, 1= requested)	I13	ID		1/1
ISA15	Usage Indicator (P = Production, T = Test)	I14	ID		1/1
ISA16	Component Element Separator (Suggest “:”)	I15			1/1

GS Segment: Functional Group Header

GS*SR*SILVER*CN*20171228*1336*1107*X*007010

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
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

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
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*11CN*K*B****10**2**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
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 (11=Rule 11)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN=CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L=Pounds; K=Kilograms)	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**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
BNX01	Shipment Weight Code (R=Rail Carrier Scale Weight) (A=Weight Agreement)	460	ID	1/1
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*20171228*1336

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

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*4810320171228*1336**

N9*PO*24002754

N9*WM*911

N9*HS*4805.10.00007

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
N901	Reference Number Qualifier BM=Bill of Lading No. PO=Purchase Order No. WM=Weight Agreement HS=Harmonized code	128	ID	2/3
N902	Reference Number	127	AN	1/30
N904	Date (YYYYMMDD)	373	DT	8/8
N905	Time (HHMM)	337	TM	4/6

N7 Segment: Equipment Details

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

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
N701	Equipment Initial	206	AN	1/4
N702	Equipment Number	207	AN	1/15
N703	Weight	81	R	1/10
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

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
M701	Seal Number	225	AN	2/15
M702	Seal Number	225	AN	2/15

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**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
F902	Origin Station	19	AN	2/30
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 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**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
D902	Destination Station	19	AN	2/30
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*11*SILVER STONE CANADA
N1*XU*TRANS-BORDER CUSTOM SERVICES

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code SH=Shipper CN=Consignee C1=Care of Party 11=Party to be billed (AAR accounting rule 11) XU=Customs Broker	98	ID	2/3
N102	Name	93	AN	1/35

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

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
N401	City Name	19	AN	2/30
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/9

BL Segment: Billing Information

BL*RD**TORONTO*ON***CHGO***CN BL*RD****CHGO****MEMPHIS*TN**NS**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
BL01	Rebill Reason Code (RC=R11 collect beyond) (RD-R11 prepaid beyond)	747	ID	2/2
BL05	City Name	19	AN	2/30
BL06	State or Province Code	156	ID	2/2
BL09	City Name	19	AN	2/30
BL12	Standard Carrier Alpha Code (SCAC) (CN=Canadian National) (NS=Norfolk Southern Ry)	140	ID	2/4

R2 Segment: Route Information

R2*CN*R*CHGO R2*NS*1

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 (R=Origin Carrier, Rule 11 shipment) 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	2/30

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*1*CORRUGATING MEDIUM PAPER*2631119*T

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
L501	Lading Line Item Number	213	N0	1/6
L502	Lading Description	79	AN	1/50
L503	Commodity Code	22	AN	1/30
L504	Commodity Code Qualifier (T= STCC Code)	23	ID	1/1

L0 Segment: Line Item, Quantity 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	1/6
L004	Weight	81	R	1/10
L005	Weight Qualifier (N=Actual weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code ROL=Rolls PKG=Packages	211	ID	3/3

X1 Segment: Export License REQUIRE FOR TRANSBORDER SHIPMENT

X1AJR 773001*C***CA***20*22822.45**RL**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
X102	Export License Number	50	AN	6/35
X103	Export Lic Status Code	51	ID	1/1
X107	Country Code	26	ID	2/3
X110	Lading Quantity	80	N0	1/7
X111	Lading Value	148	R	2/9
X113	Unit Or Basis For Measurement Code (RL = Roll) (MP = Metric tons)	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*28*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

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

IEA Segment: Interchange Control Trailer

IEA*1*000026035

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
IEA01	Number of included Functional Groups	I16	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	9/9