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*PP**CN*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*XU*US CUSTOMS BROKER SERVICES**
**N4*PORT HURON*MI*12345**
**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*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**

| Element | Element Description | Data Element | Data Type | Characters Seg 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 | Element Description | Data Element | Data Type | Characters Seg 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*PP**CN*K*B****10**2**

| Element | Element Description | Data Element | Data Type | Characters Seg 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; K=Kilograms) | 188 | ID | 1/1 |
| BX07 | Shipment Qualifier (B=Bill of Lading for Individual Shipment) | 147 | ID | 1/1 |
| <span style="color:red">BX11</span> | <span style="color:red">Customs Documentation Handling Code (10=Proforma entered – B13 Not Required) (30=Proforma with Broker at Port of exit - B13 Not Required)</span> | <span style="color:red">501</span> | <span style="color:red">ID</span> | <span style="color:red">2/2</span> |
| 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*A**S**

| Element | Element Description | Data Element | Data Type | Characters Seg Min/Max |
|---|---|---|---|---|
| BNX01 | Shipment Weight Code (R=Rail Carrier  Scale Weight) | 460 | ID | 1/1 |

(A=Weight Agreement)

| | | | | |
|---|---|---|---|---|
| BNX03 | Billing Code | 11 | ID | 1/1 |
| | (S=Single Shipment Billing) | | | |

## 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**

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

## 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**20171228*1336**
**N9*PO*24002754**
**N9*WM*911**
**N9*HS*4805.10.00007**

| Element | Element Description | Data | Data |
|---|---|---|---|
| Characters | | | |

| Seg<br>Min/Max | | Element | Type | |
|---|---|---|---|---|
| N901 | Reference Number Qualifier<br>BM=Bill of Lading No.<br>PO=Purchase Order No.<br>WM=Weight Agreement<br>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**

| Element<br>Characters<br>Seg<br>Min/Max | Element Description | Data<br>Element | Data<br>Type | |
|---|---|---|---|---|
| N701 | Equipment Initial | 206 | AN | 1/4 |
| N702 | Equipment Number | 207 | AN | 1/15 |
| N703 | Weight | 81 | R | 1/10 |
| N704 | Weight Qualifier<br>(N=Actual net weight<br>E= Estimated Weight) | 187 | ID | 1/2 |
| N711 | Equipment Description Code<br>(RR=Rail Car) | 40 | ID | 2/2 |

## M7 Segment:   Seal Numbers

**M7*W-664647*W-664648**

| Element<br>Characters<br>Seg<br>Min/Max | Element Description | Data<br>Element | Data<br>Type | |
|---|---|---|---|---|
| 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.

**F9**TORONTO*ON**

| Element Seg | Element Description | Data Element | Data Type | Characters Min/Max |
|---|---|---|---|---|
| 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.

**D9**MEMPHIS*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*XU*TRANS-BORDER CUSTOM SERVICES**

| Element<br>Characters<br>Seg<br>Min/Max | Element Description | Data<br><br>Element | Data<br><br>Type | |
|---|---|---|---|---|
| N101 | Entity Identifier Code<br><span style="color:red">SH=Shipper</span><br><span style="color:red">CN=Consignee</span><br>C1=Care of Party<br>PF=Payer of freight<br><span style="color:red">XU=Customs Broker</span> | 98 | ID | 2/3 |
| N102 | Name | 93 | AN | 1/35 |

**N3 Segment: Address**

**N3*851 GRAND STREET**

| Element<br>Characters<br>Seg<br>Min/Max | Element Description | Data<br><br>Element | Data<br><br>Type | |
|---|---|---|---|---|
| N301 | Address Information | 166 | AN | 1/30 |
| N302 | Address Information | 166 | AN | 1/30 |

**N4 Segment: City and Province Code**

**N4* TORONTO*ON**

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

**R2 Segment: Route Information**

**R2*CN*S**

| Element | Element Description | Data Element | Data Type | Characters Min/Max |
|---|---|---|---|---|
| Seg | | | | |

| Element | 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=2nd 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 | Element Description | Data Element | Data Type | Characters Min/Max |
|---|---|---|---|---|
| Seg | | | | |

| Element | 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 | Element Description | Data | Data |
|---|---|---|---|
| Characters | | | |

| Seg | | Element | Type | |
|---|---|---|---|---|
| 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 | 23 | ID | 1/1 |
| | (T= STCC Code) | | | |

## L0 Segment: Line Item, Quantity and Weight

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

| Element | Element Description | Data | Data | |
|---|---|---|---|---|
| Characters | | | | |
| Seg | | Element | Type | |
| Min/Max | | | | |
| | | | | |
| L001 | Lading Line Item Number | 213 | N0 | 1/6 |
| L004 | Weight | 81 | R | 1/10 |
| L005 | Weight Qualifier | 187 | ID | 1/2 |
| | (N=Actual weight) | | | |
| L008 | Lading Quantity | 80 | N0 | 1/7 |
| L009 | Packaging Form Code | 211 | ID | 3/3 |
| | ROL=Rolls | | | |
| | PKG=Packages | | | |

## X1 Segment:  Export License  REQUIRE FOR TRANSBORDER SHIPMENT

**X1**AJR  773001*C****CA***20*22822.45**RL**

| Element | Element Description | Data | Data | |
|---|---|---|---|---|
| Characters | | | | |
| Seg | | Element | Type | |
| 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 | 355 | ID | 2/2 |
| | (RL = Roll) | | | |
| | (MP = Metric tons) | | | |

## XH Segment: Pro Forma - B13 Information

**XH*USD**

| Element<br>Characters<br>Seg<br>Min/Max | Element Description | Data<br><br>Element | Data<br><br>Type | |
|---|---|---|---|---|
| XH01 | Currency Code | 100 | ID | 3/3 |

## SE Segment: Transaction Set Trailer

**SE*28*00149001**

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

## GE Segment: Functional Group Trailer

**GE*1*6280377**

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

## IEA Segment: Interchange Control Trailer

**IEA*1*000026035**

| Element<br>Characters<br>Seg<br>Min/Max | Element Description | Data<br><br>Element | Data<br><br>Type | |
|---|---|---|---|---|
| IEA01 | Number of included Functional Groups | I16 | N0 | 1/5 |

| IEA02 | Interchange Control Number | I12 | N0 | 9/9 |
| | (Same number as ISA13 | | | |