



# **Implementation Guide Rail Carrier Shipment Information**

## **EDI 404**

**Carload Bill of Lading  
Canada to USA  
General Merchandise and  
Dangerous Goods**

**Version 008030**

## **Connection to CN**

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CN has a secure MFT server <https://mftedi.cn.ca/> or we can push to an FTP server if you require. CN also connects with all major VAN's (Value Added Networks) and interconnects can be made available.

## **CN Contact**

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The **EDI Onboarding team** email address is [EDIMGR@cn.ca](mailto:EDIMGR@cn.ca). You can also visit us at [www.cn.ca](http://www.cn.ca).

## **Canadian National Railway - Electronic Commerce EDI 404 (Rail Bill of Lading) Requirements**

The enclosed documentation covers information required to handle carload traffic for both general merchandise and dangerous goods from a Canadian origin to a Canadian destination.

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**

This 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.

On this version 8030, there is a new requirement in the R2 segment that when there are multiple R2 segments present, the R203 (junction) is required on each, except for the final R2 segment.

## Canadian National Railway - Electronic Commerce Canada to USA EDI 404 (Rail Bill of Lading) Requirements

CN recommends EDI shippers to be within 2 versions of the current EDI Standard X12 Standard  
Version/Release 8030/RAIL

Sample EDI Transmission with required data for the EDI 404 Transaction Set on traffic of general  
merchandise to a domestic US destination.

### EDI 404 with mandatory transborder data highlighted in bold red.

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*231028\*1336\*U\*00803\*001054421\*1\*P\*\_  
GS\*SR\*GENERIC\*CN\*20231028\*1336\*1107\*X\*008030  
ST\*404\*105442100  
BX\*00\*R\*PP\*\*CN\*L\*B\*N\*\*\*10\*N\*2  
BNX\*S\*\*S  
M3\*R\*20231228\*1336  
N9\*BM\*1257\*\*20231028\*1336  
N9\*PO\*24002754  
N9\*WM\*911  
**N9\*HS\*48051000007**  
**N7\*CN\*123456\*101464\*N\*\*\*\*\*RR**  
**M7\*12345**  
F9\*\*TORONTO\*ON  
D9\*\*MEMPHIS\*TN  
N1\*SH\*GENERIC CARLOAD INC  
N3\*123 MAIN ROAD  
N4\*TORONTO\*ON\*M5V 1E4\*CA  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234\*EM\*JOHNDOE@GENCAR.COM  
N1\*CN\*GENERIC CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*MEMPHIS\*TN\*12345\*US  
N1\*PF\*GENERIC CARLOAD INC  
N3\*123 MAIN ROAD  
N4\*TORONTO\*ON\*M5V 1E4\*CA  
**N1\*XU\*US CUSTOMS BROKER SERVICES**  
**N3\*555 MAIN STREET**  
**N4\*PORT HURON\*MI\*12345\*CA**  
**R2\*CN\*S**  
LX\*1  
**L5\*1\*CORRUGATING MEDIUM PAPER\*2631119\*T**  
**L0\*1\*\*\*101464\*N\*\*\*20\*ROL**  
MEA\*AI\*VOL\*250.6041\*CR\*\*\*15  
MEA\*\*VWT\*0.7167\*KC\*\*\*15  
**X1\*\*\*\*\*CA\*\*\*20\*22822.45\*\*RL**  
**XH\*USD**  
SE\*38\*00149001  
GE\*1\*6280377  
IEA\*1\*000026035

## ISA Segment: Interchange Control Header

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*231028\*1336\*U\*08031\*001054421\*1\*P\*\_

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| ISA01        | Authorization Information Qualifier                                 | I01          | ID 2/2     |
| ISA02        | Authorization Information<br>(Ten spaces)                           | I02          | AN 10/10   |
| ISA03        | Security Information Qualifier                                      | I03          | ID 2/2     |
| ISA04        | Security Information<br>(Ten spaces)                                | I04          | AN 10/10   |
| ISA05        | Interchange ID Qualifier  | I05          | ID 2/2     |
| ISA06        | Interchange Sender ID<br>(GENERIC - fill out field with spaces)     | I06          | AN 15/15   |
| ISA07        | Interchange ID Qualifier<br>(If RR SCAC use 02)                     | I05          | ID 2/2     |
| ISA08        | Interchange Receiver ID<br>(CN- fill out field with spaces)         | I07          | AN 15/15   |
| ISA09        | Interchange Date<br>(YYMMDD)  | I08          | DT 6/6     |
| ISA10        | Interchange Time<br>(HHMM)  | I09          | TM 4/4     |
| ISA11        | Repetition Separator<br>(Suggest “^”)                               | I65          | 1/1        |
| ISA12        | Interchange Control Version Number<br>(Value 00803)                 | I11          | ID 5/5     |
| ISA13        | Interchange Control Number<br>(a control number assigned by sender) | I12          | N0 9/9     |
| ISA14        | Acknowledgment Requested<br>(0 = none requested)<br>(1 = requested) | I13          | ID 1/1     |
| ISA15        | Usage Indicator<br>(P = Production)<br>(T = Test)                   | I14          | ID 1/1     |
| ISA16        | Component Element Separator<br>(Suggest “.”)                        | I15          | 1/1        |

### **GS Segment: Functional Group Header**

**GS\*SR\*GENERIC\*CN\*20231028\*1336\*1107\*X\*008030**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| GS01         | Functional Identifier Code<br>(SR=Rail Carrier Shipment Information)              | 479          | ID 2/2     |
| GS02         | Application Sender's Code   | 142          | AN 2/15    |
| GS03         | Application Receiver's Code<br>(CN=Canadian National)                             | 124          | AN 2/15    |
| GS04         | Date<br>(CCYYMMDD)  | 373          | DT 8/8     |
| GS05         | Time<br>(HHMM)  | 337          | TM 4/6     |
| GS06         | Group Control Number<br>(Assigned number originated and maintained by the sender) | 28           | N0 1/9     |
| GS07         | Responsible Agency Code<br>(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**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| ST01         | Transaction Set Identifier Code<br>(404=Rail Carrier Shipment Information Bill of Lading) | 143          | ID 3/3     |
| ST02         | Transaction Set Control Number<br>(Sequential control number generated by the sender)     | 329          | AN 4/9     |

**BX Segment: General Shipment Information**

**BX\*00\*R\*PP\*\*CN\*L\*B\*N\*\*\*10\*N\*2**

| Ref.<br>Des. | Name   | Data Element | Attributes    |
|--------------|--|--------------|---------------|
| BX01         | Transaction Set Purpose Code<br>(00=Original)  | 353          | ID 2/2        |
| BX02         | Transportation Method/Type Code<br>(R=Rail)  | 91           | ID 1/2        |
| BX03         | Shipment Method of Payment<br>(PP=Prepaid)   | 146          | ID 2/2        |
| BX05         | Standard Carrier Alpha Code<br>(CN=CN Rail)  | 140          | ID 2/4        |
| BX06         | Weight Unit Code<br>(L=Pounds)   | 188          | ID 1/1        |
| BX07         | Shipment Qualifier<br>(B=Bill of Lading for Individual Shipment)   | 147          | ID 1/1        |
| BX08         | Section Seven Code<br>(N=not in effect)  | 226          | ID 1/1        |
| <b>BX11</b>  | <b>Customs Documentation Handling Code</b><br><b>(10=Proforma entered – B13 Not Required)</b>                    | <b>501</b>   | <b>ID 2/2</b> |
| BX12         | Confidential Billing Request Code<br>(N=not applicable)  | 199          | ID 1/1        |
| <b>BX13</b>  | <b>Goods and Services Tax Reason Code</b><br><b>(2=Outbounds Goods and Services Tax Declaration to USA only)</b> | <b>714</b>   | <b>ID 1/1</b> |

**BNX Segment: Rail Shipment Information**

**BNX\*S\*\*S**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| BNX01        | Shipment Weight Code<br>(S = Shipper Certified Scale Weight) | 460          | ID 1/1     |
| BNX03        | Billing Code<br>(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 at a future time.

#### **M3\*R\*20231028\*1336**

| Ref.<br>Des. | Name                                  | Data Element | Attributes |
|--------------|---------------------------------------|--------------|------------|
| M301         | Release Code                          | 132          | ID 1/1     |
| M302         | Release Date<br>(CCYYMMDD)            | 373          | DT 8/8     |
| M303         | Release Time<br>(HHMM, 24-hour clock) | 337          | TM 4/8     |

### N9 Segment: Extended Reference Information

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\*1257\*\*20231028\*1336**

**N9\*PO\*24002754**

**N9\*WM\*911**

**N9\*HS\*4805100007**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| N901         | Reference Number Qualifier<br>(BM=Bill of Lading No)<br>(PO=Purchase Order No)<br>(WM=Weight Agreement)<br>(HS=Harmonized system 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\*CN\*123456\*101464\*N\*\*\*\*\*RR**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| 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)   | 187          | ID         | 1/2  |
| N711         | Equipment Description Code<br>(RR=Rail Car) | 40           | ID         | 2/2  |

**M7 Segment: Seal Numbers**

**M7\*123456**

| Ref.<br>Des. | Name        | Data Element | Attributes |      |
|--------------|-------------|--------------|------------|------|
| M701         | Seal Number | 225          | AN         | 2/15 |

**F9 Segment: Origin Station**

Indicates the origin of the shipment, the point from where 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**

| Ref.<br>Des. | Name                   | Data Element | Attributes |      |
|--------------|------------------------|--------------|------------|------|
| F902         | Origin Station         | 19           | AN         | 2/30 |
| F903         | State or Province Code | 156          | ID         | 2/2  |

### D9 Segment: Destination Station

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.

#### **D9\*\*MEMPHIS\*TN**

| Ref.<br>Des. | Name                   | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| D902         | Destination Station    | 19           | AN 2/30    |
| D903         | State or Province Code | 156          | ID 2/2     |

### N1 Segment: Party Identification

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\*GENERIC CARLOAD INC  
N3\*123 MAIN ROAD  
N4\*TORONTO\*ON\*M5V 1E4\*CA  
N1\*CN\*GENERIC CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*MEMPHIS\*TN\*12345\*US  
N1\*PF\*GENERIC CARLOAD INC  
N3\*123 MAIN ROAD  
N4\*TORONTO\*ON\*M5V 1E4\*CA  
N1\*XU\*US CUSTOMS BROKER SERVICES  
N3\*555 MAIN STREET  
N4\*PORT HURON\*MI\*12345\*US**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| N101         | Entity Identifier Code<br>(SH=Shipper)<br>(CN=Consignee)<br>(PF = payer of freight)<br>(XU= US Customs Broker) | 98           | ID 2/3     |
| N102         | Name   | 93           | AN 1/35    |

**N3 Segment: Party Location**

| Ref.<br>Des. | Name                | Data Element | Attributes |
|--------------|---------------------|--------------|------------|
| N301         | Address Information | 166          | AN 1/30    |

**N4 Segment: Geographic Location**

| Ref.<br>Des. | Name                   | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| N401         | City Name              | 19           | AN 2/30    |
| N402         | State or Province Code | 156          | ID 2/2     |
| N403         | Postal Code            | 116          | ID 3/15    |
| N404         | Country Code           | 26           | ID 2/3     |

*\*\*For North American countries, use the ISO-3166 Alpha-2 character code.*

**PER Segment: Administrative Communications Contact**

**PER\*IC\*CONTACT NAME\*TE\*123-123-1234\*EM\*JOHNDOE@GENCAR.COM**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| PER01        | Contact function code<br>(IC = Information contact)  | 366          | ID 2/2     |
| PER02        | Name   | 93           | AN 1/35    |
| PER03        | Communication number qualifier<br>(TE=telephone)     | 365          | ID 2/2     |
| PER04        | Communication number                                 | 364          | AN 1/80    |
| PER05        | Communication number qualifier<br>(EM=email address) | 365          | ID 2/2     |
| PER06        | Communication number                                 | 364          | AN 1/80    |

**Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)**

**The value entered in the PER02/03 should be the preferred method of contact.**

## R2 Segment: Route Information

### **R2\*CN\*S**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| R201         | Standard Carrier Alpha Code (SCAC)<br>(CN=Canadian National)          | 140          | ID         | 2/4  |
| R202         | Routing Sequence Code<br>(S=Origin Carrier, Shipper's Routing (Rail)) | 133          | ID         | 1/2  |
| R203         | Junction Name<br>(Contains R260 junction)                             | 19           | AN         | 2/30 |

**\*\*When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final.**

## LX Segment: Transaction Set Line Number

### **LX\*1**

| Ref.<br>Des. | Name  | Data Element | Attributes |     |
|--------------|---|--------------|------------|-----|
| LX01         | Assigned Number<br>(Number assigned for differentiation within a transaction set) | 554          | N0         | 1/6 |

## L5 Segment: Description, Marks, and Numbers

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**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| L501         | Line Number   | 213          | N0         | 1/6  |
| L502         | Commodity Description   | 79           | AN         | 1/50 |
| L503         | Commodity Code<br>(7-digit Standard Transportation Commodity Code (STCC))       | 22           | AN         | 1/30 |
| L504         | Commodity Code Qualifier<br>(T = Standard Transportation Commodity Code (STCC)) | 23           | ID         | 1/1  |

**L0 Segment: Line Item - Quantity and Weight**

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

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| L001         | Lading Line Item Number                     | 213          | N0         | 1/6  |
| L004         | Weight                                      | 81           | R          | 1/10 |
| L005         | Weight Qualifier<br>(N = Actual Net Weight) | 187          | ID         | 1/2  |
| L008         | Lading Quantity                             | 80           | N0         | 1/7  |
| L009         | Packaging Form Code<br>(ROL = rolls)        | 211          | ID         | 3/3  |

**MEA Segment: Measurements**

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

**MEA\*AI\*VOL\*250.6041\*CR\*\*\*15**

**MEA\*\*VWT\*0.7167\*KC\*\*\*15**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| MEA01        | Measurement Reference ID Code<br>(AI = Net Compliance Total)                                  | 737          | ID         | 2/2  |
| MEA02        | Measurement Qualifier<br>(VOL = volume)<br>(VWT = volume weight)                              | 738          | ID         | 1/3  |
| MEA03        | Measurement Value   | 739          | R          | 1/28 |
| MEA04        | Unit or Basis for measurement code<br>(CR = cubic meters)<br>(KC = kilograms per cubic meter) | 355          | ID         | 2/2  |
| MEA07        | Measurement significance code<br>(15 = Standard temperature and pressure)                     | 935          | ID         | 2/2  |

**X1 Segment: Export License**

*Mandatory for transborder shipments*

**X1\*\*\*\*\*CA\*\*\*20\*22822.45\*\*RL**

| Ref.<br>Des. | Name  | Data Element | Attributes |     |
|--------------|---|--------------|------------|-----|
| 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<br>(RL=roll) | 355          | ID         | 2/2 |

**XH Segment: Pro Forma - B13 Information**

**XH\*USD**

| Ref.<br>Des. | Name          | Data Element | Attributes |     |
|--------------|---------------|--------------|------------|-----|
| XH01         | Currency Code | 100          | ID         | 3/3 |

**SE Segment: Transaction Set Trailer**

**SE\*38\*00149001**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| 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**

| Ref.<br>Des. | Name  | Data Element | Attributes |     |
|--------------|---|--------------|------------|-----|
| 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**

| Ref.<br>Des. | Name   | Data Element | Attributes |     |     |
|--------------|--|--------------|------------|-----|-----|
| IEA01        | Number of included Functional Groups                 | I16          | N0         | 1/5 |     |
| IEA02        | Interchange Control Number<br>(Same number as ISA13) | I12          | N0         |     | 9/9 |

## Canadian National Railway - Electronic Commerce Canada to USA Hazardous EDI 404 (Rail Bill of Lading) Requirements

CN is currently using the X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on Dangerous Goods traffic destined to the United States.

**EDI 404 with mandatory transborder data highlighted in bold red.**

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*231012\*1454\*U\*00803\*000054913\*0\*P\*^  
GS\*SR\*GENERIC\*CN\*20231012\*1454\*0092\*X\*008030  
ST\*404\*00920001  
BX\*00\*R\*PP\*\*CN\*L\*B\*N\*\*\*10\*N\*2  
BNX\*S\*\*S  
M3\*R\*20231012\*1454  
N9\*BM\*1257\*\*20231028\*1336  
N9\*PO\*24002754  
N9\*WM\*911  
**N9\*HS\*48051000007**  
**N7\*CGTX\*12345\*213360\*N\*\*\*\*\*RR**  
**M7\*12345**  
F9\*\*WATSON\*SK  
D9\*\*GROOS\*MI  
N1\*SH\*GENERIC CARLOAD INC  
N3\*123 MAIN ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234\*EM\*JOHNDOE@GENCAR.COM  
N1\*CN\*GENERIC CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*GROOS\*MI\*12345\*US  
N1\*PF\*GENERIC CARLOAD INC  
N3\*123 MAIN ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
**N1\*XU\*US CUSTOMS BROKER SERVICES**  
**N3\*555 MAIN STREET**  
**N4\*PORT HURON\*MI\*12345\*US**  
**R2\*CN\*S\*SUPER**  
**R2\*UP\*1**  
LX\*1  
**L5\*1\*SODIUM CHLORATE\*4918723\*T**  
**L0\*1\*\*\*213360\*N\*\*\*1\*TKR**  
MEA\*AI\*VOL\*250.6041\*CR\*\*\*15  
MEA\*\*VWT\*0.7167\*KC\*\*\*15  
**X1\*\*\*\*\*CA\*\*\*1\*22822.45\*\*RL**  
LS\*LH1  
**LH1\*TK\*1\*UN1495\*\*4918723\*LB\*213360\*\*\*II**  
LH2\*5.1\*P  
LH3\*SODIUM CHLORATE\*C  
LH4\*\*\*II  
LHT\*5.1  
**PER\*HM\*offeror name or contract number\*TE\*123-123-1234**  
**PER\*CN\*offeror name or contract number\*TE\*321\*321\*4321**  
N1\*SH\*GENERIC CARLOAD INC  
N3\*123 MAIN ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA



**LE\*LH1**  
**XH\*USD**  
**LH6\*JOHN Q SHIPPER**  
**SE\*53\*00920001**  
**GE\*1\*0092**  
**IEA\*1\*000054913**

**BX Segment: General Shipment Information**

**BX\*00\*R\*PP\*\*CN\*L\*B\*N\*\*\*10\*N\*2**

| Ref.<br>Des. | Name   | Data Element | Attributes    |
|--------------|--|--------------|---------------|
| BX01         | Transaction Set Purpose Code<br>(00=Original)  | 353          | ID 2/2        |
| BX02         | Transportation Method/Type Code<br>(R=Rail)  | 91           | ID 1/2        |
| BX03         | Shipment Method of Payment<br>(PP=Prepaid)   | 146          | ID 2/2        |
| BX05         | Standard Carrier Alpha Code<br>(CN=CN Rail)  | 140          | ID 2/4        |
| BX06         | Weight Unit Code<br>(L=Pounds)   | 188          | ID 1/1        |
| BX07         | Shipment Qualifier<br>(B=Bill of Lading for Individual Shipment)   | 147          | ID 1/1        |
| BX08         | Section Seven Code<br>(N=not in effect)  | 226          | ID 1/1        |
| <b>BX11</b>  | <b>Customs Documentation Handling Code</b><br><b>(10=Proforma entered – B13 Not Required)</b>                    | <b>501</b>   | <b>ID 2/2</b> |
| BX12         | Confidential Billing Request Code<br>(N=not applicable)  | 199          | ID 1/1        |
| <b>BX13</b>  | <b>Goods and Services Tax Reason Code</b><br><b>(2=Outbounds Goods and Services Tax Declaration to USA only)</b> | <b>714</b>   | <b>ID 1/1</b> |

**BNX Segment: Rail Shipment Information**

**BNX\*S\*S**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| BNX01        | Shipment Weight Code<br>(S = Shipper Certified Scale Weight) | 460          | ID 1/1     |
| BNX03        | Billing Code<br>(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 at a future time.

**M3\*R\*20231012\*1454**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| M301         | Release Code<br>(R = Release with Shipment Information) | 132          | ID 1/1     |
| M302         | Release Date<br>(CCYYMMDD)                              | 373          | DT 8/8     |
| M303         | Release Time<br>(HHMM, 24-hour clock 0001-2359)         | 337          | TM 4/6     |

**N9 Segment: Extended Reference Information**

Allows Reference Numbers to be sent to CN. At least one N9 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.

**N9\*BM\*1257\*\*20231028\*1336**

**N9\*PO\*24002754**

**N9\*WM\*911**

**N9\*HS\*48051000007**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| N901         | Reference Number Qualifier<br>(BM = Bill of Lading number)<br>(WM = Weight Agreement Number)<br>(PO = Purchase order Number)<br>(HS=harmonized code)                              | 128          | ID 2/3     |
| N902         | Reference Number<br>(Max 15 characters for B/L # (BM))  | 127          | AN 1/30    |
| N904         | Date<br>(CCYYMMDD, required for B/L (BM))   | 373          | DT 8/8     |
| N905         | Time<br>(HHMM, 24-hour clock 0001-2359 or<br>HHMMSS or HHMMSSD or HHMMSSDD<br>H=hours 00-23 M=minutes 00-59 S=seconds 00-59<br>DD=decimal seconds in tenths and hundredths 00-99) | 337          | TM 4/8     |

**N7 Segment: Equipment Details**

**N7\*CGTX\*12345\*213360\*N\*\*\*\*\*RR**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| 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 = Net Weight)          | 187          | ID         | 1/2  |
| N711         | Equipment Description Code<br>(RR = Railcar } | 40           | ID         | 2/2  |

**M7 Segment: Seal Numbers**

**M7\*123456**

| Ref.<br>Des. | Name        | Data Element | Attributes |      |
|--------------|-------------|--------------|------------|------|
| M701         | Seal Number | 225          | AN         | 2/15 |

**F9 Segment: Origin Station**

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) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

**F9\*\*WATSON\*SK**

| Ref.<br>Des. | Name                   | Data Element | Attributes |      |
|--------------|------------------------|--------------|------------|------|
| F902         | Origin Station         | 19           | AN         | 2/30 |
| F903         | State or Province Code |              |            |      |

**D9 Segment: Destination Station**

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 the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

**D9\*\*GROOS\*MI**

| Ref.<br>Des. | Name                   | Data Element | Attributes |      |
|--------------|------------------------|--------------|------------|------|
| D902         | Destination Station    | 19           | AN         | 2/30 |
| D903         | State or Province Code | 156          | ID         | 2/2  |

**N1 Segment: Party Identification**

Associated to the 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\*GENERIC CARLOAD INC**  
**N3\*123 MAIN ROAD**  
**N4\*WATSON\*SK\*S0K 4V0\*CA**  
**N1\*CN\*GENERIC CONSIGNEE CO**  
**N3\*12 SMITH STREET**  
**N4\*GROOS\*MI\*12345\*US**  
**N1\*PF\*GENERIC CARLOAD INC**  
**N3\*123 MAIN ROAD**  
**N4\*WATSON\*SK\*S0K 4V0\*CA**  
**N1\*XU\*US CUSTOMS BROKER SERVICES**  
**N3\*555 MAIN STREET**  
**N4\*PORT HURON\*MI\*12345\*US**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| N101         | Entity Identifier Code<br>(SH = Shipper)<br>(CN = Consignee)<br>(PF = payer of freight)<br>(XU = US Customs Broker) | 98           | ID         | 2/2  |
| N102         | Name  | 93           | AN         | 1/35 |

### N3 Segment: Party Location

| Ref.<br>Des. | Name                | Data Element | Attributes |
|--------------|---------------------|--------------|------------|
| N301         | Address Information | 166          | AN 1/30    |

### N4 Segment: Geographic Location

| Ref.<br>Des. | Name                   | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| N401         | City Name              | 19           | AN 2/30    |
| N402         | State or Province Code | 156          | ID 2/2     |
| N403         | Postal Code            | 116          | ID 3/15    |
| N404         | Country Code           | 26           | ID 2/3     |

*\*\*For North American countries, use the ISO-3166 Alpha-2 character code.*

### PER Segment: Administrative Communications Contact

**PER\*IC\*CONTACT NAME\*TE\*123-123-1234\*EM\*JOHNDOE@GENCAR.COM**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| PER01        | Contact function code<br>(IC = Information contact)  | 366          | ID 2/2     |
| PER02        | Name   | 93           | AN 1/35    |
| PER03        | Communication number qualifier<br>(TE=telephone)     | 365          | ID 2/2     |
| PER04        | Communication number                                 | 364          | AN 1/80    |
| PER05        | Communication number qualifier<br>(EM=email address) | 365          | ID 2/2     |
| PER06        | Communication number                                 | 364          | AN 1/80    |

**Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)**

**The value entered in the PER02/03 should be the preferred method of contact.**

**R2 Segment: Route Information**

One R2 segment for each railroad in the route.  
CN can provide route information for your shipments (i.e.: Railroad SCAC's and junctions).

**R2\*CN\*S\*SUPER  
R2\*UP\*1**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| R201         | Standard Carrier Alpha Code (SCAC)<br>(CN = Canadian National)<br>(UP = Union Pacific) | 140          | ID 2/4     |
| R202         | Routing Sequence Code<br>(S = Origin Carrier, Shipper's Routing (Rail))                | 133          | ID 1/2     |
| R203         | Junction Name<br>(Contains R260 junction)  | 19           | AN 2/30    |

**\*\*When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final.**

**LX Segment: Transaction Set Line Number**

**LX\*1**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| LX01         | Assigned Number<br>(Number assigned for differentiation within a transaction set) | 554          | N0 1/6     |

### L5 Segment: Description, Marks, and Numbers

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\*SODIUM CHLORATE\*4918723\*T**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| L501         | Line Number   | 213          | N0         | 1/6  |
| L502         | Commodity Description   | 79           | AN         | 1/50 |
| L503         | Commodity Code<br>(7-digit Standard Transportation Commodity Code (STCC))       | 22           | AN         | 1/30 |
| L504         | Commodity Code Qualifier<br>(T = Standard Transportation Commodity Code (STCC)) | 23           | ID         | 1/1  |

### L0 Segment: Line Item - Quantity and Weight

**L0\*1\*\*\*213360\*N\*\*\*1\*TKR**

| Ref.<br>Des. | Name                                  | Data Element | Attributes |      |
|--------------|---------------------------------------|--------------|------------|------|
| L001         | Lading Line Item Number               | 213          | N0         | 1/6  |
| L004         | Weight                                | 81           | R          | 1/10 |
| L005         | Weight Qualifier<br>(N = Net Weight)  | 187          | ID         | 1/2  |
| L008         | Lading Quantity                       | 80           | N0         | 1/7  |
| L009         | Packaging Form Code<br>(TKR=tank car) | 211          | ID         | 3/3  |



### MEA Segment: Measurements

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

**MEA\*AI\*VOL\*250.6041\*CR\*\*\*15**  
**MEA\*\*VWT\*0.7167\*KC\*\*\*15**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| MEA01        | Measurement Reference ID Code<br>(AI = Net Compliance Total)                                  | 737          | ID 2/2     |
| MEA02        | Measurement Qualifier<br>(VOL = volume)<br>(VWT = volume weight)                              | 738          | ID 1/3     |
| MEA03        | Measurement Value   | 739          | R 1/28     |
| MEA04        | Unit or Basis for measurement code<br>(CR = cubic meters)<br>(KC = kilograms per cubic meter) | 355          | ID 2/2     |
| MEA07        | Measurement significance code<br>(15 = Standard temperature and pressure)                     | 935          | ID 2/2     |

### X1 Segment: Export License

*Mandatory for transborder shipments*

**X1\*\*\*\*\*CA\*\*\*1\*22822.45\*\*1P**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| 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<br>(1P=tank car) | 355          | ID 2/2     |

### LS Segment: Loop Header

**LS\*LH1**

| Ref.<br>Des. | Name                 | Data Element | Attributes |
|--------------|----------------------|--------------|------------|
| LS01         | Loop Identifier Code | 447          | AN 1/6     |

**LH1 Segment: Hazardous Identification Information**

**LH1\*TK\*1\*UN1495\*\*4918723\*LB\*213300\*\*\*II**

| Ref.<br>Des. | Name   | Data Element | Attributes |      |
|--------------|--|--------------|------------|------|
| LH101        | Unit or Basis for Measurement Code<br>(TK=Tank)  | 355          | ID         | 2/2  |
| LH102        | Lading Quantity                                  | 80           | NO         | 1/7  |
| LH103        | UN or NA Identification Code                     | 277          | ID         | 6/6  |
| LH105        | Commodity Code                                   | 22           | AN         | 1/30 |
| LH106        | Unit or Basis for Measurement Code<br>(LB=Pound) | 355          | ID         | 2/2  |
| LH107        | Quantity   | 380          | R          | 1/15 |
| LH110        | Packing Group Code                               | 254          | ID         | 1/3  |

**LH2 Segment: Hazardous Classification Information**

**LH2\*5.1\*P**

| Ref.<br>Des. | Name                                     | Data Element | Attributes |      |
|--------------|--|--------------|------------|------|
| LH201        | Hazardous Classification                 | 215          | ID         | 1/30 |
| LH202        | Hazardous Class Qualifier<br>(P=Primary) | 983          | ID         | 1/1  |

**LH3 Segment: Hazardous Material Shipping Name Information**

**LH3\*SODIUM CHLORATE\*C**

| Ref.<br>Des. | Name   | Data Element | Attributes |      |
|--------------|--|--------------|------------|------|
| LH301        | Hazardous Material Shipping Name   | 224          | AN         | 1/25 |
| LH302        | Hazardous Material Shipping<br>Name Qualifier<br>Qualifier indicating the source (regulatory) of the proper shipping name.<br>(C = Canadian Shipping Name) | 984          | ID         | 1/1  |

## LH4 Segment: Canadian Dangerous Requirements

### LH4\*\*\*II

| Ref.<br>Des. | Name          | Data Element | Attributes |
|--------------|---------------|--------------|------------|
| LH403        | Packing Group | 254          | ID 1/3     |

## PER Segment: Hazardous Communications Contact

**PER\*CN\*offeror name or contract number\*TE\*321\*321\*4321**

**PER\*HM\*offeror name or contract number\*TE\*123-123-1234**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| PER01        | Contact Function Code<br>(HM=primary 24-hour Hazardous Material Contact emergency phone number)<br>(CN=Canadian Hazardous Material Contact 24-hour emergency phone number)                      | 366          | ID 2/2     |
| PER02        | Name<br><b>**If the emergency response telephone number shown in PER04 is an emergency provider (e.g., Chemtrec), the PER02 must identify the company (offeror) by name or contract number.</b> | 93           | AN 1/35    |
| PER03        | Communication Number Qualifier<br>(TE=Telephone)  | 365          | ID 2/2     |
| PER04        | Communication Number  | 364          | AN 1/80    |

## N1 Segment: Party Identification

Within the LH1 Loop

Used to identify the **Canadian** 'consignor' ('SH' shipper or 'CN' consignee) as required by Transport Canada regulations (TDG 3.5 (1)(a)).

**N1\*SH\*GENERIC CARLOAD INC**

**N3\*123 MAIN ROAD**

**N4\*WATSON\*SK\*S0K 4V0\*CA**

| Ref.<br>Des. | Name                                     | Data Element | Attributes |
|--------------|--|--------------|------------|
| N101         | Entity Identifier Code<br>(SH = Shipper) | 98           | ID 2/3     |
| N102         | Name                                     | 93           | AN 1/35    |

**N3 Segment: Party Location**

| Ref.<br>Des. | Name                | Data Element | Attributes |      |
|--------------|---------------------|--------------|------------|------|
| N301         | Address Information | 166          | AN         | 1/30 |

**N4 Segment: Geographic Location**

| Ref.<br>Des. | Name                   | Data Element | Attributes |      |
|--------------|------------------------|--------------|------------|------|
| N401         | City Name              | 19           | AN         | 2/30 |
| N402         | State or Province Code | 156          | ID         | 2/2  |
| N403         | Postal Code            | 116          | ID         | 3/15 |
| N404         | Country Code           | 26           | ID         | 2/3  |

**LE Segments: Loop Trailer**

**LE\*LH1**

| Ref.<br>Des. | Name                 | Data Element | Attributes |     |
|--------------|----------------------|--------------|------------|-----|
| LE01         | Loop Identifier Code | 447          | AN         | 1/6 |

**XH Segment: Pro Forma - B13 Information**

**XH\*USD**

| Ref.<br>Des. | Name          | Data Element | Attributes |     |
|--------------|---------------|--------------|------------|-----|
| XH01         | Currency Code | 100          | ID         | 3/3 |

**LH6 Segment: Hazardous Certification**

Provides the name of the person who prepared, and certifies to its accuracy, the documentation of the regulated commodity.

**LH6\*JOHN Q SHIPPER**

| Ref.<br>Des. | Name | Data Element | Attributes |
|--------------|------|--------------|------------|
| LH601        | Name | 93           | AN 1/60    |