



# **Implementation Guide Rail Carrier Shipment Information**

## **EDI 404**

**Carload Bill of Lading  
Grain Shipments**

**Version 008050**

## **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 Grain traffic for Domestic, Port, and Cross Border destinations with origins in Canada.

**Canadian National Railway - Electronic Commerce  
Canadian Grain 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 8050/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on grain traffic.  
destined to a Canadian Port:

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*250112\*1454\*U\*00805\*000054913\*0\*P\*^  
GS\*SR\*GENERIC\*CN\*20250112\*1454\*0092\*X\*008050  
ST\*404\*00920001  
BX\*00\*R\*PP\*\*CN\*K\*B  
BNX\*S\*\*S  
M3\*R\*20250112\*1454  
N9\*BM\*495033230\*\*20250112\*1454  
N9\*HS\*100199020  
N7\*CN\*123456\*71384\*E\*\*\*\*\*RR  
GA\*N\*00140\*\*GR\*179052\*202518  
F9\*\*WATSON\*SK  
D9\*\*VANCOUVER\*BC  
N1\*SH\*GRAIN SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234\*EM\*JOHNDOE@GRAINSHIP.COM  
N1\*CN\*GRAIN TERMINAL CO  
N3\*12 SMITH STREET  
N4\*VANCOUVER\*BC\*V5K 1P7\*CA  
N1\*PF\*GRAIN SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
R2\*CN\*S  
LX\*1  
L5\*1\*WHEAT\*0113710\*T  
L0\*1\*\*\*71384\*E\*\*\*1\*CLD  
MEA\*AI\*VOL\*250.6041\*CR\*\*\*15  
MEA\*\*VWT\*0.7167\*KC\*\*\*15  
SE\*31\*00920001  
GE\*1\*0092  
IEA\*1\*000054913

## ISA Segment: Interchange Control Header

ISA\*00\*      \*00\*      \*ZZ\*GENERIC      \*02\*CN      \*250112\*1454\*U\*00805\*000054913\*0\*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\*20250112\*1454\*0092\*X\*008050**

| 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<br>(Customer's sender ID)                               | 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 Identity   | 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\*00920001**

| 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 Customer)           | 329          | AN 4/9     |

### **BX Segment: General Shipment Information**

#### **BX\*00\*R\*PP\*\*CN\*K\*B**

| 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)<br>(K = Kilograms)                | 188          | ID 1/1     |
| BX07         | Shipment Qualifier<br>(B = Bill of Lading for Individual Shipment) | 147          | ID 1/1     |

### **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\*20250112\*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 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     |

### 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\*495033230\*\*20250112\*1454**  
**N9\*HS\*1001990020**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| N901         | Reference Number Qualifier<br>(BM = Bill of Lading number)<br>(HS = harmonized system 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\*CN\*123456\*71384\*E\*\*\*\*\*RR**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| N701         | Equipment Initial                             | 206          | AN         | 2/4  |
| N702         | Equipment Number                              | 207          | AN         | 1/15 |
| N703         | Weight  | 81           | R          | 1/8  |
| N704         | Weight Qualifier<br>(E = Estimated Weight)    | 187          | ID         | 1/2  |
| N711         | Equipment Description Code<br>(RR = Railcar } | 40           | ID         | 2/2  |



## GA Segment: Canadian Grain Information

**GA\*N\*00140\*\*GR\*179086\*202518**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| GA01         | Fumigated/Cleaned Indicator<br>(B = Both fumigated and cleaned)<br>(C = Cleaned)<br>(F = Fumigated)<br>(N = Not fumigated or cleaned)  | 1275         | ID 1/1     |
| GA02         | Commodity Code<br>CGC Grain Commodity Code   | 22           | AN 1/30    |
| GA04         | Reference Identification Qualifier<br>(BO = Bin location number)<br>(CW = CWB contract number)<br>(DK = Platform number (producer/dealer authorization))<br>(GB = Grain block number)<br>(GR = Grain order reference number)<br>(OH = origin house (for CWB))<br>(RB = Incentive grain multi-block qualifier)<br>(RN = CWB train run qualifier)<br>(XO = Grain company sample number)<br>This number is from company test weight of grain, expressed as percentage xxx.x<br>(ZT = Milling in transit number) | 128          | ID 2/3     |
| GA05         | Reference Identification<br>(Reference number paired with GA04)  | 127          | AN 1/30    |
| GA06         | Week<br>(Loading week expressed as CCYYWW)   | 642          | N0 6/6     |

**At least one occurrence of a GA04 is required with the code value of GR.**

## F9 Segment: Origin Station

Indicates the origin of the shipment, the point from where it is shipped. The 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 2/19    |
| 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. The 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\*\*VANCOUVER\*BC**

| Ref.<br>Des. | Name                   | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| D902         | Destination Station    | 19           | AN 2/19    |
| 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 required for the Consignee and any other Additional Parties to the shipment.

**N1\*SH\*GENERIC CARLOAD INC**  
**N3\*123 FIRST ROAD**  
**N4\*WATSON\*SK\*S0K 4V0\*CA**  
**N1\*CN\*GENERIC CONSIGNEE CO**  
**N3\*12 SMITH STREET**  
**N4\*VANCOUVER\*BC\*V5K 1P7\*CA**  
**N1\*PF\*GENERIC CARLOAD INC**  
**N3\*123 FIRST ROAD**  
**N4\*WATSON\*SK\*S0K 4V0\*CA**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| N101         | Entity Identifier Code<br>(SH = Shipper)<br>(CN = Consignee)<br>(PF = Payer of Freight) | 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@GRAINSHIP.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**

| 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 Rule 260 abbreviation only)                  | 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\*WHEAT\*0113710\*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\*\*\*71384\*E\*\*\*1\*CLD**

| Ref.<br>Des. | Name                                       | Data Element | Attributes |
|--------------|--|--------------|------------|
| L001         | Lading Line Item Number                    | 213          | N0 1/6     |
| L004         | Weight                                     | 81           | R 1/8      |
| L005         | Weight Qualifier<br>(E = Estimated Weight) | 187          | ID 1/2     |
| L008         | Lading Quantity                            | 80           | N0 1/5     |
| L009         | Packaging Form Code<br>(CLD = Carload)     | 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  |

### SE Segment: Transaction Set Trailer

**SE\*31\*00920001**

| 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\*0092**

| 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\*000054913**

| 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 Canadian Grain EDI 404 (Rail Bill of Lading) Requirements

CN is currently using the X12 Standard Version/Release 8050/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on grain traffic.  
destined to a Canadian domestic location.

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*250112\*1454\*U\*00805\*000054913\*0\*P\*^  
GS\*SR\*GENERIC\*CN\*20250112\*1454\*0092\*X\*008050  
ST\*404\*00920001  
BX\*00\*R\*PP\*\*CN\*K\*B  
BNX\*S\*\*S  
M3\*R\*20250112\*1454  
N9\*BM\*495033230\*\*20250112\*1454  
N9\*LT\*AA100B  
N9\*HS\*1001990020  
N7\*CN\*123456\*71384\*E\*\*\*\*\*RR  
GA\*N\*00135\*\*GR\*179052\*202518  
F9\*\*WATSON\*SK  
D9\*\*CLINTON\*ON  
N1\*SH\*GRAIN SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234\*EM\*JOHNDOE@GRAINSHIP.COM  
N1\*CN\*GRAIN COMMODITIES CO  
N3\*12 SMITH STREET  
N4\*CLINTON\*ON\*N0M 0A5\*CA  
N1\*PF\*GRAIN SHIPPER INC  
N3\*2217 HIGH STREET  
N4\*WINNIPEG\*MB\*R3C 3Z3\*CA  
R2\*CN\*S  
LX\*1  
L5\*1\*WHEAT\*0113710\*T  
L0\*1\*\*\*71384\*E\*\*\*1\*CLD  
MEA\*AI\*VOL\*250.6041\*CR\*\*\*15  
MEA\*\*VWT\*0.7167\*KC\*\*\*15  
SE\*32\*00920001  
GE\*1\*0092  
IEA\*1\*000054913

### **BX Segment: General Shipment Information**

#### **BX\*00\*R\*PP\*\*CN\*K\*B**

| 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>(K= Kilograms)                                 | 188          | ID 1/1     |
| BX07         | Shipment Qualifier<br>(B = Bill of Lading for Individual Shipment) | 147          | ID 1/1     |

### **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\*20250112\*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 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     |



### 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\*495033230\*\*20250112\*1454**

**N9\*LT\*AA100B**

**N9\*HS\*1001990020**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| N901         | Reference Number Qualifier<br>(BM = Bill of Lading number)<br>(LT = Lot 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\*CN\*123456\*71384\*E\*\*\*\*\*RR**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| N701         | Equipment Initial                             | 206          | AN 2/4     |
| N702         | Equipment Number                              | 207          | AN 1/15    |
| N703         | Weight  | 81           | R 1/8      |
| N704         | Weight Qualifier<br>(E = Estimated Weight)    | 187          | ID 1/2     |
| N711         | Equipment Description Code<br>(RR = Railcar } | 40           | ID 2/2     |

## GA Segment: Canadian Grain Information

**GA\*N\*00135\*\*GR\*179052\*202518**

| Ref.<br>Des. | Name   | Data Element | Attributes |      |
|--------------|--|--------------|------------|------|
| GA01         | Fumigated/Cleaned Indicator<br>(B = Both fumigated and cleaned)<br>(C = Cleaned)<br>(F = Fumigated)<br>(N = Not fumigated or cleaned)  | 1275         | ID         | 1/1  |
| GA02         | Commodity Code<br>CGC Grain Commodity Code   | 22           | AN         | 1/30 |
| GA04         | Reference Identification Qualifier<br>(BO = Bin location number)<br>(CW = CWB contract number)<br>(DK = Platform number (producer/dealer authorization))<br>(GB = Grain block number)<br>(GR = Grain order reference number)<br>(OH = origin house (for CWB))<br>(RB = Incentive grain multi-block qualifier)<br>(RN = CWB train run qualifier)<br>(XO = Grain company sample number)<br>This number is from company test weight of grain, expressed as percentage xxx.x<br>(ZT = Milling in transit number) | 128          | ID         | 2/3  |
| GA05         | Reference Identification<br>(Reference number paired with GA04)  | 127          | AN         | 1/30 |
| GA06         | Week<br>(Loading week expressed as CCYYWW)   | 642          | N0         | 6/6  |

**At least one occurrence of a GA04 is required with the code value of GR.**

## 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         | 2/19 |
| 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 the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

#### **D9\*\*CLINTON\*ON**

| Ref.<br>Des. | Name                   | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| D902         | Destination Station    | 19           | AN 2/19    |
| 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\*GRAIN SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
N1\*CN\*GRAIN COMMODITIES CO  
N3\*12 SMITH STREET  
N4\*CLINTON\*ON\*N0M 0A5\*CA  
N1\*PF\*GRAIN SHIPPER INC  
N3\*2217 HIGH STREET  
N4\*WINNIPEG\*MB\*R3C 3Z3\*CA**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| N101         | Entity Identifier Code<br>(SH = Shipper)<br>(CN = Consignee)<br>(PF = Payer of Freight) | 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@GRAINSHIP.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**

| 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 Rule 260 abbreviation only)                  | 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\*WHEAT\*0113710\*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\*\*\*71384\*E\*\*\*1\*CLD**

| Ref.<br>Des. | Name                                       | Data Element | Attributes |
|--------------|--|--------------|------------|
| L001         | Lading Line Item Number                    | 213          | N0 1/6     |
| L004         | Weight                                     | 81           | R 1/8      |
| L005         | Weight Qualifier<br>(E = Estimated Weight) | 187          | ID 1/2     |
| L008         | Lading Quantity                            | 80           | N0 1/5     |
| L009         | Packaging Form Code<br>(CLD = Carload)     | 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     |

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

CN is currently using the X12 Standard Version/Release 8050/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on grain traffic.  
destined to the USA.:

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

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*250112\*1454\*U\*00805\*000054913\*0\*P\*^  
GS\*SR\*GENERIC\*CN\*20250112\*1454\*0092\*X\*008050  
ST\*404\*00920001  
BX\*00\*R\*PP\*\*CN\*K\*B\*\*\*\*10\*\*2  
BNX\*S\*\*S  
M3\*R\*20250112\*1454  
N9\*BM\*495033230\*\*20250112\*1454  
N9\*2K\*FDA\*\*20250112\*1454  
N9\*CED\*ZZ1234202311051234567  
N9\*HS\*340319  
N7\*CN\*123456\*71384\*E\*\*\*\*\*RR  
M7\*1234\*5678\*91122  
GA\*\*010100\*\*GR\*297123\*202518  
F9\*\*WATSON\*SK  
D9\*\*ST ANSGAR\*IA  
N1\*SH\*GRAIN SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234\*EM\*JOHNDOE@GRAINSHIP.COM  
N1\*CN\*AGRI TRADING INC  
N3\*12 SMITH STREET  
N4\*ST ANSGAR\*IA\*12345\*US  
N1\*C1\*GRAIN MILLERS CORP  
N3\*2217 HIGH STREET  
N4\*ST ANSGAR\*IA\*12345\*US  
N1\*PF\*GRAIN SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
N1\*XU\*LIVINGSTON INTERNATIONAL INC  
N3\*123 MAIN ST  
N4\*RANIER\*MN\*12345\*US  
R2\*CN\*S  
LX\*1  
L5\*1\*WHEAT\*0113710\*T  
L0\*1\*\*\*71384\*E\*\*\*1\*CLD  
MEA\*AI\*VOL\*250.6041\*CR\*\*\*15  
MEA\*\*VWT\*0.7167\*KC\*\*\*15  
X1\*\*\*\*\*CA\*\*\*78\*10769.52\*\*MP\*138  
XH\*USD\*N\*FCD\*138  
SE\*42\*00920001  
GE\*1\*0092  
IEA\*000054913

### **BX Segment: General Shipment Information**

**BX\*00\*R\*PP\*\*CN\*K\*B\*\*\*\*10\*\*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)<br>(K = Kilograms)  | 188          | ID 1/1     |
| BX07         | Shipment Qualifier<br>(B=Bill of Lading for Individual Shipment)                                   | 147          | ID 1/1     |
| BX11         | Customs Documentation Handling Code<br>(10=Proforma entered – B13 Not Required)                    | 501          | ID 2/2     |
| BX13         | Goods and Services Tax Reason Code<br>(2=Outbounds Goods and Services Tax Declaration to USA only) | 714          | ID 1/1     |

### **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\*20250112\*1454**

| 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 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 |

## 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\*495033230\*\*20250112\*1454**

**N9\*2K\*FDA\*\*20250112\*1454**

**N9\*CED\*ZZ1234202311051234567**

**N9\*HS\*340319**

| Ref. Des. | Name   | Data Element | Attributes |
|-----------|--|--------------|------------|
| N901      | Reference Number Qualifier<br>(BM=Bill of Lading No)<br>(PO=Purchase Order No)<br>(CED=CBSA Export Declaration Number)<br>(2K=FDA Product type)<br>(HS=harmonized system code)   | 128          | ID 2/3     |
| N902      | Reference Number<br>If N901=BM, only 15 characters are allowed max.<br>If N901=2K then N902 will be FDA<br>If N901=CED then N902 will be one of the following:<br>1. Canadian Automated Export Declaration (CAED)* <b>note</b> BX11 value will be <b>14</b><br>N9*CED*12X543SC123420050312345<br>2. G7 EDI Export Reporting * <b>note</b> BX11 value will be <b>14</b><br>N9*CED*SC123420050312345<br>3. Summary Reporting ID number * <b>note</b> BX11 value will be <b>16</b><br>N9*CED*SUM1234<br>4. Form B13A Export Declaration<br>Stamp Machine or Manual Customs Stamp * <b>note</b> BX11 value will be <b>14</b><br>N9*CED*200503171300497000235<br>5. No Declaration Required (NDR) * <b>note</b> BX11 value will be <b>30</b><br>N9*CED*NO DECLARATION IS REQUIRED | 127          | AN 1/30    |
| N904      | Date<br>(CCYYMMDD, required for B/L (BM))  | 373          | DT 8/8     |
| N905      | Time (HHMM)<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\*CN\*123456\*71384\*E\*\*\*\*\*RR**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| N701         | Equipment Initial                           | 206          | AN         | 2/4  |
| N702         | Equipment Number                            | 207          | AN         | 1/15 |
| N703         | Weight                                      | 81           | R          | 1/8  |
| N704         | Weight Qualifier<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\*1234\*5678\*91122**

| Ref.<br>Des. | Name        | Data Element | Attributes |      |
|--------------|-------------|--------------|------------|------|
| M701         | Seal Number | 225          | AN         | 2/15 |
| M702         | Seal Number | 225          | AN         | 2/15 |
| M703         | Seal Number | 225          | AN         | 2/15 |

## GA Segment: Canadian Grain Information

**GA\*\*010100\*\*GR\*297123\*202518**

| Ref.<br>Des. | Name   | Data Element | Attributes |      |
|--------------|--|--------------|------------|------|
| GA01         | Fumigated/Cleaned Indicator<br>(B = Both fumigated and cleaned)<br>(C = Cleaned)<br>(F = Fumigated)<br>(N = Not fumigated or cleaned)  | 1275         | ID         | 1/1  |
| GA02         | Commodity Code<br>CGC Grain Commodity Code   | 22           | AN         | 1/30 |
| GA04         | Reference Identification Qualifier<br>(BO = Bin location number)<br>(CW = CWB contract number)<br>(DK = Platform number (producer/dealer authorization))<br>(GB = Grain block number)<br>(GR = Grain order reference number)<br>(OH = origin house (for CWB))<br>(RB = Incentive grain multi-block qualifier)<br>(RN = CWB train run qualifier)<br>(XO = Grain company sample number)<br>This number is from company test weight of grain, expressed as percentage xxx.x<br>(ZT = Milling in transit number) | 128          | ID         | 2/3  |
| GA05         | Reference Identification<br>(Reference number paired with GA04)  | 127          | AN         | 1/30 |
| GA06         | Week<br>(Loading week expressed as CCYYWW)   | 642          | N0         | 6/6  |

**At least one occurrence of a GA04 is required with the code value of GR.**

## 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         | 2/19 |
| 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 the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

**D9\*\*ST ANSGAR\*IA**

| Ref.<br>Des. | Name                   | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| D902         | Destination Station    | 19           | AN 2/19    |
| 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\*GRAIN SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
N1\*CN\*AGRI TRADING INC  
N3\*12 SMITH STREET  
N4\*ST ANSGAR\*IA\*12345\*US  
N1\*C1\*GRAIN MILLERS CORP  
N3\*2217 HIGH STREET  
N4\*ST ANSGAR\*IA\*12345\*US  
N1\*PF\*GRAIN SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
N1\*XU\*LIVINGSTON INTERNATIONAL INC  
N3\*123 MAIN STREET  
N4\*RANIER\*MN\*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@GRAINSHIP.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**

| 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 Rule 260 abbreviation only)                | 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\*WHEAT\*0113710\*T**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| L501         | Lading Line Item Number   | 213          | N0         | 1/6  |
| L502         | Lading 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= STCC Code)                                | 23           | ID         | 1/1  |

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

#### **L0\*1\*\*\*71384\*E\*\*\*1\*CLD**

| Ref.<br>Des. | Name                                   | Data Element | Attributes |     |
|--------------|--|--------------|------------|-----|
| L001         | Lading Line Item Number                | 213          | N0         | 1/6 |
| L004         | Weight                                 | 81           | R          | 1/8 |
| L005         | Weight Qualifier<br>(N=Actual weight)  | 187          | ID         | 1/2 |
| L008         | Lading Quantity                        | 80           | N0         | 1/5 |
| L009         | Packaging Form Code<br>(CLD = Carload) | 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\*\*\*78\*10769.52\*\*MP\*138**

| Ref.<br>Des. | Name   | Data Element | Attributes |      |
|--------------|--|--------------|------------|------|
| X107         | Country Code   | 26           | ID         | 2/3  |
| X110         | Lading quantity  | 80           | N0         | 1/5  |
| X111         | Lading value   | 148          | R          | 2/9  |
| X113         | Unit or basis for measurement code<br>(MP=metric tons) | 355          | ID         | 2/2  |
| X114         | Unit price   | 212          | R          | 1/17 |

### XH Segment: Proforma – B13 Information

**XH\*USD\*N\*FCD\*138**

| Ref.<br>Des. | Name                             | Data Element | Attributes |      |
|--------------|----------------------------------|--------------|------------|------|
| XH01         | Currency Code                    | 100          | ID         | 3/3  |
| XH02         | Related company Indication Code  | 645          | ID         | 1/1  |
| XH03         | Special Charge or Allowance Code | 150          | ID         | 3/3  |
| XH04         | Amount                           | 610          | N2         | 1/15 |