



Implementation Guide Rail Carrier Shipment Information

EDI 404

Price Reference Identification

Connection to CN

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

The **EDI Onboarding team** email address is EDIMGR@cn.ca. You can also visit us at www.cn.ca.

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

The enclosed documentation covers information required to include the Price Reference Identification within the EDI 404 message.
The placement of the PI segment differs based on the EDI Rail version being used.

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

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

Sample EDI message with required data for the EDI 404 Transaction Set including the Price Reference Identification for Rail EDI version 3020 to 3040.

ISA*00* *00* *ZZ*GENERIC *02*CN *231212*0959*U*00304*000026095*0*P>
GS*SR*GENERIC*CN*20231212*0959*26095*X*003040
ST*404*260950001
BX*00*R*PP**CN*L*B
BNX*A**S
M3*R*20231212*0959
N9*BM*054119800*CN*20231212*0959
N9*CT*CN 823303AM*CN*20231212*0959
N9*KL*CN T0000822329001821
N7*ARMN*110001*98081*N*****RC
M7*028365 028366
F9**STORM LAKE*IA
D9**SEATTLE*WA
N1*SH*GENERIC CARLOAD INC
N3*123 MAIN STREET
N4*STORM LAKE*IA
N1*CN*GENERIC CONSIGNEE
N3*123 MAIN STREET
N4*SEATTLE*WA
PER*DC*SALLY*TE*2066224000
N1*PF*GENERIC PAYOR
N3*123 MAIN DRIVE
N4*VANCOUVER*BC
R2*CN*S*SXCTY***R
R2*UP*1
LX*1
L5*1*WALLBOARD*3275440*T
LS*LX
LX*1
L0*1***98081*N***1*CLD
LE*LX
SE*34*260950001
GE*1*26095
IEA*1*000026095

ISA Segment: Interchange Control Header

ISA*00* *00* *ZZ*GENERIC *02*CN *231212*0959*U*00200*000026095*0*P*>

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| 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 (GENERIC - 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 00304) | 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*GENERIC*CN*20231212*0959*26095*X*003040

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| GS01 | Functional Identifier Code (SR = Rail Carrier Shipment Information) | 479 | ID 2/2 |
| GS02 | Application Sender's Code (Customer's sender ID) | 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 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*260950001

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| 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 Customer) | 329 | AN 4/9 |

BX Segment: General Shipment Information

BX*00*R*PPCN*L*B**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|--|--------------|------------|
| BX01 | Transaction Set Purpose Code (00 = Original) | 353 | ID 2/2 |
| BX02 | Transportation Method/Type Code (R = Rail)} | 91 | ID 1/2 |
| BX03 | Shipment Method of Payment (PP = Prepaid) | 146 | ID 2/2 |
| BX05 | Standard Carrier Alpha Code (CN = CN Rail) | 140 | ID 2/4 |
| BX06 | Weight Unit Code (L = Pounds) | 188 | ID 1/1 |
| BX07 | Shipment Qualifier (B = Bill of Lading for Individual Shipment) | 147 | ID 1/1 |

BNX Segment: Rail Shipment Information

BNX*AS**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| BNX01 | Shipment Weight Code (A = Weight Agreement Number) | 460 | ID 1/1 |
| BNX03 | Billing Code (S = Single Shipment Billing) | 11 | ID 1/1 |

M3 Segment: Release

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

M3*R*20231212*0959

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

N9 Segment: Reference Number

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*054I19800*CN*20231212*0959
N9*CT*CN 823303AM*CN*20231212*0959
N9*KL*CN T000822329001821

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|------|
| N901 | Reference Number Qualifier (BM = Bill of Lading number) (CT = Contract Number) (KL = Price Reference Identification) | 128 | ID | 2/2 |
| N902 | Reference Number (Max 15 characters for B/L # (BM)) | 127 | AN | 1/30 |
| N904 | Date (CCYYMMDD, required for B/L (BM)) | 373 | DT | 8/8 |
| N905 | Time (HHMM, 24-hour clock 0001-2359) | 337 | TM | 4/6 |

N7 Segment: Equipment Details

N7*ARMN*110001*98081*N***RC**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|------|
| N701 | Equipment Initial | 206 | AN | 1/4 |
| N702 | Equipment Number | 207 | AN | 1/10 |
| N703 | Weight | 81 | R | 1/8 |
| N704 | Weight Qualifier (N = Net Weight) | 187 | ID | 1/2 |
| N711 | Equipment Description Code (RC = refrigerated (reefer) Railcar) | 40 | ID | 2/2 |

M7 Segment: Seal Numbers

M7*028365 028366

| Ref. 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.

F9STORM LAKE*IA**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| F902 | Origin Station | 101 | 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.

D9SEATTLE*WA**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| D902 | Destination Station | 300 | AN 2/19 |
| D903 | State or Province Code | 156 | ID 2/2 |

N1 Segment: Name

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 STREET
N4*STORM LAKE*IA
N1*CN*GENERIC CONSIGNEE
N3*123 MAIN STREET
N4*SEATTLE*WA
N1*PF*GENERIC PAYOR
N3*123 MAIN DRIVE
N4*VANCOUVER*BC**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| N101 | Entity Identifier Code (CN = Consignee) (SH = Shipper) (PF = payer of freight) | 98 | ID 2/2 |
| N102 | Name | 93 | AN 1/27 |

N3 Segment: Address Information

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

N4 Segment: Geographic Location

| Ref. Des. | Name | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| N401 | City Name | 19 | AN 2/30 |
| N402 | State or Province Code | 156 | ID 2/2 |

PER Segment: Administrative Communications Contact

Specifies the contact particulars of the party named in the N1 segment.

PER*DC*SALLY*TE*2066224000

| Ref. Des. | Name | Data Element | Attributes |
|--------------|--|--------------|------------|
| PER01 | Contact function code (DC = direct contact) | 366 | ID 2/2 |
| PER02 | Name | 93 | AN 1/35 |
| PER03 | Communication number qualifier (TE=telephone) | 365 | ID 2/2 |
| PER04 | Communication number | 364 | AN 1/80 |

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*SXCTY*R R2*UP*1**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| R201 | Standard Carrier Alpha Code (SCAC) (CN = Canadian National) | 140 | ID 2/4 |
| R202 | Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail)) | 133 | ID 1/2 |
| R206 | Transportation Method/Type Code (R = Rail) | 91 | ID 1/2 |

LX Segment: Assigned Number

LX*1

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| LX01 | Assigned Number (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*WALLBOARD*3275440*T

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|------|
| L501 | Line Number | 213 | N0 | 1/3 |
| L502 | Commodity Description | 79 | AN | 1/50 |
| L503 | Commodity Code (7-digit Standard Transportation Commodity Code (STCC)) | 22 | AN | 1/16 |
| L504 | Commodity Code Qualifier (T = Standard Transportation Commodity Code (STCC)) | 23 | ID | 1/1 |

L0 Segment: Line Item - Quantity and Weight

L0*1*98081*N***1*CLD**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|-----|
| L001 | Lading Line Item Number | 213 | N0 | 1/3 |
| L004 | Weight | 81 | R | 1/8 |
| L005 | Weight Qualifier (N = Net Weight) | 187 | ID | 1/2 |
| L008 | Lading Quantity | 80 | N0 | 1/7 |
| L009 | Packaging Form Code (CLD = Carload) | 211 | ID | 3/3 |

SE Segment: Transaction Set Trailer

SE*34*00920001

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|------|
| SE01 | Number of Included Segments (Includes ST and SE segments) | 96 | N0 | 1/10 |
| SE02 | Transaction Set Control Number (Repeated from ST segment ST02) | 329 | AN | 4/9 |

GE Segment: Functional Group Trailer

GE*1*26095

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|-----|
| GE01 | Number of Transaction Sets Included | 97 | N0 | 1/6 |
| GE02 | Group Control Number (Repeated from GS segment GS06) | 28 | N0 | 1/9 |

IEA Segment: Interchange Control Trailer

IEA*1*000026095

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

Canadian National Railway - Electronic Commerce Basic 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 including the Price Reference Identification for Rail EDI version 3050 to 5040.

ISA*00* *00* *ZZ*GENERIC *02*CN *231212*1213*U*00401*000007015*0*T*>
GS*SR*GENERIC*CN*20231212*1213*7015*X*004010
ST*404*86356
BX*00*R*CC**CN*L*B****30**2
BNX*A**S
M3*R*20231212*1213
N9*BM*784224**20231212*1213
N9*HS*8708.99.8080
N7*FTTX*925112*54994*N*****BX
F9**ST THOMAS*ON
D9**FLINT*MI
N1*SH*GENERIC CARLOAD
N3*123 MAIN STREET
N4*ST THOMAS*ON
PER*IC**TE*15196338400
N1*CN*GENERIC CONSIGNEE
N3*VAN 123 MAIN STREET
N4*FLINT*MI
N1*PF*GENERIC PAYOR
N3*123 MAIN STREET
N4*FORT MYERS*FL
R2*CN*S****R
LX*1
L5*1*WALLBOARD*3275440*T
L0*1***54994*N***72*PCS
PI*KL*CN Q000051911600002
X1***C*****72*91117***1265.52
XH*CDN*N*595
SE*31*86356
GE*1*7015
IEA*1*000007015

ISA Segment: Interchange Control Header

ISA*00* *00* *ZZ*GENERIC *02*CN *231212*1213*U*00401*00007015*0*T*>

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| 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 (GENERIC - 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 00401) | 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*GENERIC*CN*20231212*1213*7015*X*004010

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|------|
| GS01 | Functional Identifier Code (SR = Rail Carrier Shipment Information) | 479 | ID | 2/2 |
| GS02 | Application Sender's Code (Customer's sender ID) | 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 Identity (CN is using version 004010 of the X12 EDI Standards) | 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*86356

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|-----|
| 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 Customer) | 329 | AN | 4/9 |

BX Segment: General Shipment Information**BX*00*R*CC**CN*L*B****30**2**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| 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 (CC = Collect) | 146 | ID 2/2 |
| BX05 | Standard Carrier Alpha Code (CN = CN Rail) | 140 | ID 2/4 |
| BX06 | Weight Unit Code (L = Pounds) | 188 | ID 1/1 |
| BX07 | Shipment Qualifier (B = Bill of Lading for Individual Shipment) | 147 | ID 1/1 |
| BX11 | Customs Documentation handling code (30 = Proforma with Broker, no B13 required) | 501 | ID 2/2 |
| BX13 | GST Declaration code (2 = No GST to apply) | 714 | ID 1/1 |

BNX Segment: Rail Shipment Information**BNX*A**S**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| BNX01 | Shipment Weight Code (A = Weight Agreement Number) | 460 | ID 1/1 |
| BNX03 | Billing Code (S = Single Shipment Billing) | 11 | ID 1/1 |

M3 Segment: Release

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

M3*R*20231212*1213

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

N9 Segment: Reference Identification

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*78422420231212*1213**

N9*HS*8708.99.8080

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|------|
| N901 | Reference Number Qualifier (BM = Bill of Lading number) (HS = Harmonized Code System) | 128 | ID | 2/2 |
| N902 | Reference Number (Max 15 characters for B/L # (BM)) | 127 | AN | 1/30 |
| N904 | Date (CCYYMMDD, required for B/L (BM)) | 373 | DT | 8/8 |
| N905 | Time (HHMM, 24-hour clock 0001-2359) | 337 | TM | 4/6 |

N7 Segment: Equipment Details**N7*FTTX*925112*54994*N*****BX**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|------|
| N701 | Equipment Initial | 206 | AN | 1/4 |
| N702 | Equipment Number | 207 | AN | 1/10 |
| N703 | Weight | 81 | R | 1/8 |
| N704 | Weight Qualifier (N = Net Weight) | 187 | ID | 1/2 |
| N711 | Equipment Description Code (BX = boxcar) | 40 | ID | 2/2 |

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.

F9ST THOMAS*ON**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|------------------------|--------------|------------|------|
| F902 | Origin Station | 101 | 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.

D9FLINT*MI**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|------------------------|--------------|------------|------|
| D902 | Destination Station | 300 | AN | 2/19 |
| D903 | State or Province Code | 156 | ID | 2/2 |

N1 Segment: Name

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
N3*123 MAIN STREET
N4*ST THOMAS*ON
N1*CN*GENERIC CONSIGNEE
N3*VAN 123 MAIN STREET
N4*FLINT*MI
N1*PF*GENERIC PAYOR
N3*123 MAIN STREET
N4*FORT MYERS*FL**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| N101 | Entity Identifier Code (CN = Consignee) (SH = Shipper) (PF = Payor of Freight) | 98 | ID 2/2 |
| N102 | Name | 93 | AN 1/27 |

N3 Segment: Address Information

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

N4 Segment: Geographic Location

| Ref. Des. | Name | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| N401 | City Name | 19 | AN 2/30 |
| N402 | State or Province Code | 156 | ID 2/2 |

PER Segment: Administrative Communications Contact

Specifies the contact particulars of the party named in the N1 segment.

PER*ICTE*15196338400**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|------|
| PER01 | Contact function code (IC = Information contact) | 366 | ID | 2/2 |
| PER03 | Communication number qualifier (TE=telephone) | 365 | ID | 2/2 |
| PER04 | Communication number | 364 | AN | 1/80 |

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**R**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|-----|
| R201 | Standard Carrier Alpha Code (SCAC) (CN = Canadian National etc.) | 140 | ID | 2/4 |
| R202 | Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail)) | 133 | ID | 1/2 |
| R206 | Transportation Method/Type Code (R = Rail) | 91 | ID | 1/2 |

LX Segment: Assigned Number

LX*1

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|-----|
| LX01 | Assigned Number (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*WALLBOARD*3275440*T

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|------|
| L501 | Line Number | 213 | N0 | 1/3 |
| L502 | Commodity Description | 79 | AN | 1/50 |
| L503 | Commodity Code (7-digit Standard Transportation Commodity Code (STCC)) | 22 | AN | 1/16 |
| L504 | Commodity Code Qualifier (T = Standard Transportation Commodity Code (STCC)) | 23 | ID | 1/1 |

L0 Segment: Line Item - Quantity and Weight

L0*1*54994*N***72*PCS**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|-----|
| L001 | Lading Line Item Number | 213 | N0 | 1/3 |
| L004 | Weight | 81 | R | 1/8 |
| L005 | Weight Qualifier (N = Net Weight) | 187 | ID | ½ |
| L008 | Lading Quantity | 80 | N0 | 1/7 |
| L009 | Packaging Form Code (CLD = Carload) | 211 | ID | 3/3 |

PI Segment: Price Authority Identification

PI*KL*CN Q000051911600002

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|------|
| PI01 | Reference Number Qualifier (KL = Contract Reference) | 128 | ID | 2/3 |
| PI02 | Reference Number ** note there are 2 blank spaces from CN to the start of the ID number | 127 | AN | 1/30 |

X1 Segment: Export License

X1*C*****72*91117***1265.52**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|----------------------------|--------------|------------|
| X103 | Export License Status Code | 51 | ID 1/1 |
| X110 | Lading Quantity | 80 | N0 1/7 |
| X111 | Lading Value | 148 | R 2/9 |
| X114 | Unit Price | 212 | R 1/17 |

XH Segment: Pro Forma – B13 Information

XH*CDN*N*595

| Ref. 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 |

SE Segment: Transaction Set Trailer

SE*38*86356

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| SE01 | Number of Included Segments (Includes ST and SE segments) | 96 | N0 1/10 |
| SE02 | Transaction Set Control Number (Repeated from ST segment ST02) | 329 | AN 4/9 |

GE Segment: Functional Group Trailer

GE*1*7015

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| GE01 | Number of Transaction Sets Included | 97 | N0 1/6 |
| GE02 | Group Control Number (Repeated from GS segment GS06) | | |

IEA Segment: Interchange Control Trailer

IEA*1*000007015

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

Canadian National Railway - Electronic Commerce Basic 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 including the Price Reference Identification for Rail EDI version 5050 to current.

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.

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

ISA*00* *00* *ZZ*GENERIC *02*CN *231212*1213*U*00803*000037663*0*P*>
GS*SR*GENERIC*CN*20231212*1513*37663*X*008030
ST*404*376630005
BX*00*R*PP**CN*L*B
BNX*S**S
M3*R*20231212*1513
N9*BM*564975*CN*20231212*1513
N7*UTLX*952106*147257*N*****RR
REF*KL*1
L0*1
PI*KL*CN T0000822329001821
F9**EAST MORRIS*IL
D9**LORENZO*IL
N1*SH*GENERIC CARLOAD INC
N3*123 MAIN STREET
N4*EAST MORRIS*IL*12345*US
PER*IC*CONTACT NAME*TE*123-123-1234*EM* JOHN.DOE@GENCAR.COM
N1*CN*GENERIC CONSIGNEE INC
N3*456 MAIN STREET
N4*LORENZO*IL*60000*US
N1*PF*GENERIC PAYOR LLC
N3*123 FIRST ROAD
N4*HOUSTON*TX*77079*US
R2*CN*S*EOLA
R2*BNSF*1
LX*1
L5*1*LIQUEFIED PETROLEUM GASES*4905421*T
L0*1***147257*N***1*CLD
LS*LH1
LH1*C4*1*UN1075**4905421*LB*147257
LH2*2.1*P
LH3*LIQUEFIED PETROLEUM GASES*D
LFH*NOD
PER*HM*offeror name or contract number*TE*8004249300
LE*LH1
LH6*JOHN Q SHIPPER
SE*38*376630005
GE*1*37663
IEA*1*000037663

ISA Segment: Interchange Control Header

ISA*00* *00* *ZZ*GENERIC *02*CN *231212*1513*U*00803*000037663*0*P*>

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| 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 | I04 | AN 10/10 |
| ISA05 | Interchange ID Qualifier | I05 | ID 2/2 |
| ISA06 | Interchange Sender ID (GENERIC - 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 008030) | 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*GENERIC*CN*20231212*1513*37663*X*008030

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| GS01 | Functional Identifier Code (SR = Rail Carrier Shipment Information) | 479 | ID 2/2 |
| GS02 | Application Sender's Code (Customer's sender ID) | 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 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*376630005

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| 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 Customer) | 329 | AN 4/9 |

BX Segment: General Shipment Information

BX*00*R*PPCN*L*B**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|--|--------------|------------|
| BX01 | Transaction Set Purpose Code (00 = Original) | 353 | ID 2/2 |
| BX02 | Transportation Method/Type Code (R = Rail)} | 91 | ID 1/2 |
| BX03 | Shipment Method of Payment (PP = Prepaid) | 146 | ID 2/2 |
| BX05 | Standard Carrier Alpha Code (CN = CN Rail) | 140 | ID 2/4 |
| BX06 | Weight Unit Code (L = Pounds) | 188 | ID 1/1 |
| BX07 | Shipment Qualifier (B = Bill of Lading for Individual Shipment) | 147 | ID 1/1 |

BNX Segment: Rail Shipment Information

BNX*SS**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|--|--------------|------------|
| BNX01 | Shipment Weight Code (S = Shipper's Weight) | 460 | ID 1/1 |
| BNX03 | Billing Code (S = Single Shipment Billing) | 11 | ID 1/1 |

M3 Segment: Release

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

M3*R*20231212*1513

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|-----|
| M301 | Release Code (R = Release with Shipment Information) | 132 | ID | 1/1 |
| M302 | Release Date (CCYYMMDD) | 373 | DT | 8/8 |
| M303 | Release Time (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*564975*CN*20231212*1513

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|------|
| N901 | Reference Number Qualifier (BM = Bill of Lading number) | 128 | ID | 2/2 |
| N902 | Reference Number (Max 15 characters for B/L # (BM)) | 127 | AN | 1/30 |
| N904 | Date (CCYYMMDD, required for B/L (BM)) | 373 | DT | 8/8 |
| N905 | Time (HHMM, 24-hour clock 0001-2359) | 337 | TM | 4/6 |

N7 Segment: Equipment Details

N7*UTLX*952106*147257*N***RR**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|------|
| N701 | Equipment Initial | 206 | AN | 1/4 |
| N702 | Equipment Number | 207 | AN | 1/10 |
| N703 | Weight | 81 | R | 1/8 |
| N704 | Weight Qualifier (N = Net Weight) | 187 | ID | 1/2 |
| N711 | Equipment Description Code (RR = Railcar } | 40 | ID | 2/2 |

REF Segment: Reference information

Within the N7/REF Loop.

REF*KL*1

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|------|
| REF01 | Reference Identification Qualifier | 128 | ID | 2/3 |
| REF02 | Reference Identification (KL= Contract Reference) | 127 | AN | 1/30 |

L0 Segment: Line Item – Quantity and Weight

L0*1

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|-------------------------|--------------|------------|-----|
| L001 | Lading Line Item Number | 213 | N0 | 1/6 |

PI Segment: Price Authority Identification

PI*KL*CN T0000822329001821

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|------|
| PI01 | Reference Number Qualifier (KL = Contract Reference) | 128 | ID | 2/3 |
| PI02 | Reference Number ** note there are 2 blank spaces from “CN” to the start of the ID number | 127 | AN | 1/30 |

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.

F9EAST MORRIS*IL**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|------------------------|--------------|------------|------|
| F902 | Origin Station | 101 | 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.

D9LORENZO*IL**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|------------------------|--------------|------------|------|
| D902 | Destination Station | 300 | 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*GENERIC CARLOAD INC
N3*123 MAIN STREET
N4*MORRIS*IL*12345*US
N1*CN*GENERIC CONSIGNEE INC
N3*456 MAIN STREET
N4*LORENZO*IL*60000*US
N1*PF*GENERIC PAYOR LLC
N3*123 FIRST ROAD
N4*HOUSTON*TX*77079*US

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| N101 | Entity Identifier Code (CN = Consignee) (SH = Shipper) (PF = Payor of Freight) | 98 | ID 2/2 |
| N102 | Name | 93 | AN 1/27 |

N3 Segment: Party Location

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

N4 Segment: Geographic Location

| Ref. 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*JOHN.DOE@GENCAR.COM

| Ref. Des. | Name | Data Element | Attributes |
|--------------|--|--------------|------------|
| PER01 | Contact function code (IC = Information contact) | 366 | ID 2/2 |
| PER02 | Name | 93 | AN 1/35 |
| PER03 | Communication number qualifier (TE=telephone) | 365 | ID 2/2 |
| PER04 | Communication number | 364 | AN 1/80 |
| PER05 | Communication number qualifier (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*EOLA
R2*BNSF*1

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| R201 | Standard Carrier Alpha Code (SCAC) | 140 | ID 2/4 |
| R202 | Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail)) (1 = 1 st carrier after origin carrier) | 133 | ID 1/2 |
| R203 | Junction Name (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. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| LX01 | Assigned Number (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*LIQUEFIED PETROLEUM GASES*4905421*T

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|------|
| L501 | Line Number | 213 | N0 | 1/3 |
| L502 | Commodity Description | 79 | AN | 1/50 |
| L503 | Commodity Code (7-digit Standard Transportation Commodity Code (STCC)) | 22 | AN | 1/16 |
| L504 | Commodity Code Qualifier (T = Standard Transportation Commodity Code (STCC)) | 23 | ID | 1/1 |

L0 Segment: Line Item - Quantity and Weight

L0*1*147257*N***1*CLD**

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|--|--------------|------------|-----|
| L001 | Lading Line Item Number | 213 | N0 | 1/3 |
| L004 | Weight | 81 | R | 1/8 |
| L005 | Weight Qualifier (N = Net Weight) | 187 | ID | 1/2 |
| L008 | Lading Quantity | 80 | N0 | 1/7 |
| L009 | Packaging Form Code (CLD = Carload) | 211 | ID | 3/3 |

LS Segment: Loop Header

Identifies the start of the Hazmat documentation loop.

LS*LH1

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|----------------------|--------------|------------|-----|
| LS01 | Loop Identifier Code | 447 | AN | 1/4 |

LH1 Segment: Hazardous Identification Information

LH1*C4*1*UN10754905421*LB*147257**

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| LH101 | Unit or Basis for Measurement Code (TK = Tank) | 355 | ID 2/2 |
| LH102 | Lading Quantity | 80 | N0 1/7 |
| LH103 | UN or NA Identification Code | 277 | ID 6/6 |
| LH105 | Commodity Code (Standard Transportation Commodity Code (STCC)) | 22 | AN 1/30 |
| LH106 | Unit or Basis for Measurement Code (LB = pound) | 355 | ID 2/2 |
| LH107 | Quantity | 380 | R 1/15 |

LH2 Segment: Hazardous Classification Information

Provides classification information.

LH2*2.1*P

| Ref. Des. | Name | Data Element | Attributes |
|--------------|--|--------------|------------|
| LH201 | Hazardous Classification | 215 | ID 2/30 |
| LH202 | Hazardous Class Qualifier (P=Primary) | 983 | ID 1/1 |

LH3 Segment: Hazardous Material Shipping Name Information

Provides the Proper Shipping Name as required by the CFR49 or TDG regulations, and the regulations under which the shipment is being made.

LH3*LIQUEFIED PETROLEUM GASES*D

| Ref. Des. | Name | Data Element | Attributes |
|--------------|--|--------------|------------|
| LH301 | Hazardous Material Shipping Name | 224 | AN 1/25 |
| LH302 | Hazardous Material Shipping Name Qualifier (D = USA Shipping Name) | 984 | ID 1/1 |

LFH Segment: Free-form Hazardous Material Information

Provides additional information related to the shipment of the regulated product.

LFH*NOD

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| LFH01 | Hazardous Material Information Qualifier (NOD = not odorized notation) | 808 | ID 3/3 |
| LFH02 | Hazardous Material Shipment Information | 809 | AN 1/25 |

PER Segment: Administrative Communications Contact

Provides contact information as required by regulations.

PER*HM*offeror name or contract number*TE*8004249300

| Ref. Des. | Name | Data Element | Attributes |
|--------------|---|--------------|------------|
| PER01 | Contact Function Code (HM=primary 24-hour Hazardous Material Contact emergency phone number) | 366 | ID 2/2 |
| PER02 | Name 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. | 93 | AN 1/35 |
| PER03 | Communication Number Qualifier (TE=Telephone) | 365 | ID 2/2 |
| PER04 | Communication Number | 364 | AN 1/80 |

LE Segments: Loop Trailer

LE*LH1

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

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. Des. | Name | Data Element | Attributes | |
|--------------|------|--------------|------------|------|
| LH601 | Name | 93 | AN | 1/60 |

SE Segment: Transaction Set Trailer

SE*38*376630005

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|------|
| SE01 | Number of Included Segments (Includes ST and SE segments) | 96 | N0 | 1/10 |
| SE02 | Transaction Set Control Number (Repeated from ST segment ST02) | 329 | AN | 4/9 |

GE Segment: Functional Group Trailer

GE*1*37663

| Ref. Des. | Name | Data Element | Attributes | |
|--------------|---|--------------|------------|-----|
| GE01 | Number of Transaction Sets Included | 97 | N0 | 1/6 |
| GE02 | Group Control Number (Repeated from GS Segment GS06) | 28 | N0 | 1/9 |

IEA Segment: Interchange Control Trailer

IEA*1*000037663

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