Implementation Guide
Rail Carrier Shipment Information

EDI 404

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

Version 008050

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
EDI 404 (Rail Bill of Lading) Requirements

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

US Bureau of Customs and Border Protection (CBP) requires electronic cargo information for rail shipments imported to the United States, as mandated by the US Trade Act of 2002.

CBP specifies mandatory transborder data requirements:

1. **Equipment initial/number**
2. **Actual shipper name, address, city, province/state, postal code/zip code**
3. **Final consignee, address, city, province/state, postal code/zip code**
4. **Importer name, address, city, province/state, postal code/zip code**
5. **Customs broker**
6. **Total number of pieces and package type**
7. **Complete and accurate description of goods**
8. **Total weight and unit of measure**
9. **Invoice value and currency.**
10. **Country of origin of the goods**
11. **Complete route**
12. **Seal numbers.**

This critical transborder data must be included in all bills of lading along with standard shipment information.

The following EDI 404 bill of lading example highlights the data mapping to meet the requirements of the US Trade Act of 2002. Please also reference the Rail Carrier Shipment Information guide to ANSI X12 Standards for bill of lading.

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

CN recommends EDI shippers to be within 2 versions of the current EDI Standard X12 Standard Version/Release 8050/RAIL

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

EDI 404 with mandatory transborder data highlighted in bold red.

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ISA*00*      *00*      *ZZ*GENERIC      *02*CN           *250128*1336*U*00805*001054421*1*P*_
GS*SR*GENERIC*CN*20250128*1336*1107*X*008050
ST*404*105442100
BX*00*R*PP**CN*K*B*N***10*N*2
BNX*S**S
M3*R*20250128*1336
N9*BM*1257**20250128*1336
N9*PO*24002754
N9*WM*911
N9*HS*48051000007
N7*CN*123456*46120*N*******RR
M7*12345
F9**TORONTO*ON
D9**MEMPHIS*TN
N1*SH*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*TORONTO*ON*M5V 1E4*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM
N1*CN*GENERIC CONSIGNEE CO
N3*12 SMITH STREET
N4*MEMPHIS*TN*12345*US
N1*PF*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*TORONTO*ON*M5V 1E4*CA
N1*XU*US CUSTOMS BROKER SERVICES
N3*555 MAIN STREET
N4*PORT HURON*MI*12345*CA
R2*CN*S
LX*1
L5*1*CORRUGATING MEDIUM PAPER*2631119*T
L0*1***46120*N***20*ROL
MEA*AI*VOL*250.6041*CR***15
MEA**VWT*0.7167*KC***15
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X1*****CA***20*22822.45**RL**
XH*USD
SE*38*00149001
GE*1*6280377
IEA*1*000026035

ISA Segment: Interchange Control Header

ISA*00*   *00*   *ZZ*GENERIC   *02*CN   *250128*1336*U*00805*001054421*1*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 00803)	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*20250128*1336*1107*X*008050

Ref. Des.	Name	Data Element	Attributes	
GS01	Functional Identifier Code (SR=Rail Carrier Shipment Information)	479	ID	2/2
GS02	Application Sender's Code	142	AN	2/15
GS03	Application Receiver's Code (CN=Canadian National)	124	AN	2/15
GS04	Date (CCYYMMDD)	373	DT	8/8
GS05	Time (HHMM)	337	TM	4/6
GS06	Group Control Number (Assigned number originated and maintained by the sender)	28	N0	1/9
GS07	Responsible Agency Code (X=Accredited Standards Committee X12)	455	ID	1/2
GS08	Version / Release / Industry Identify	480	AN	1/12

ST Segment: Transaction Set Header

To indicate the start of a transaction set and to assign a control number.

ST*404*105442100

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	329	AN	4/9

(Sequential control number generated by the sender)

BX Segment: General Shipment Information

BX*00*R*PPCN*K*B*N***10*N*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 (PP=Prepaid)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN=CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L=Pounds) (K = Kilograms)	188	ID	1/1
BX07	Shipment Qualifier (B=Bill of Lading for Individual Shipment)	147	ID	1/1
BX08	Section Seven Code (N=not in effect)	226	ID	1/1
BX11	Customs Documentation Handling Code (10=Proforma entered – B13 Not Required)	501	ID	2/2
BX12	Confidential Billing Request Code (N=not applicable)	199	ID	1/1
BX13	Goods and Services Tax Reason Code (2=Outbounds Goods and Services Tax Declaration to USA only)	714	ID	1/1

BNX Segment: Rail Shipment Information

BNX*SS**

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (S = Shipper Certified Scale 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 at a future time.

M3*R*20250128*1336

Ref. Des.	Name	Data Element	Attributes	
M301	Release Code	132	ID	1/1
M302	Release Date (CCYYMMDD)	373	DT	8/8
M303	Release Time (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59 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 segment containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and remittance/Payment. The complete list of qualifiers (N901 data element 128) is lengthy. Your CN EDI Customer Consultant can provide you with the appropriate qualifier for your reference number.

N9*BM*125720250128*1336**

N9*PO*24002754
N9*WM*911
N9*HS*48051000007

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM=Bill of Lading No) (PO=Purchase Order No) (WM=Weight Agreement) (HS=Harmonized system code)	128	ID	2/3
N902	Reference Number	127	AN	1/30
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT	8/8
N905	Time (HHMM) (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59 DD=decimal seconds in tenths and hundredths 00-99)	337	TM	4/8

N7 Segment: Equipment Details

N7*CN*123456*46120*N*******RR

Ref. 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 (N=Actual net weight)	187	ID	1/2
N711	Equipment Description Code (RR=Rail Car)	40	ID	2/2

M7 Segment: Seal Numbers

M7*123456

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 where it is shipped. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standards available from the National Transportation Agency (Canada). CN can provide spelling for your stations.

F9**TORONTO*ON

Ref. 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 the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9**MEMPHIS*TN

Ref. 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 N3 and N4 segments below. N1, N3 and N4 segments are repeated for the consignee and any other Additional Parties to the shipment.

N1*SH*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*TORONTO*ON*M5V 1E4*CA

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

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

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*JOHNDOE@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

R2*CN*S

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
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	554	N0	1/6
	(Number assigned for differentiation within a transaction set)			

L5 Segment: Description, Marks, and Numbers

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1*CORRUGATING MEDIUM PAPER*2631119*T

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

L0 Segment: Line Item - Quantity and Weight

L0*1*46120*N***20*ROL**

Ref. Des.	Name	Data Element	Attributes	
L001	Lading Line Item Number	213	N0	1/6
L004	Weight	81	R	1/8
L005	Weight Qualifier	187	ID	1/2
	(N = Actual Net Weight)			
L008	Lading Quantity	80	N0	1/5
L009	Packaging Form Code	211	ID	3/3
	(ROL = rolls)			

MEA Segment: Measurements

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

MEA*AI*VOL*250.6041*CR*15**
MEAVWT*0.7167*KC***15**

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

X1 Segment: Export License

Mandatory for transborder shipments

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

Ref. 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 355 (RL=roll)		ID	2/2

XH Segment: Pro Forma - B13 Information

XH*USD

Ref. Des.	Name	Data Element	Attributes	
XH01	Currency Code	100	ID	3/3

SE Segment: Transaction Set Trailer

SE*38*00149001

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*6280377

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*000026035

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
Canada to USA Hazardous 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 Dangerous Goods traffic destined to the United States.

EDI 404 with mandatory transborder data highlighted in bold red.

ISA*00*   *00*   *ZZ*GENERIC   *02*CN   *250128*1454*U*00805*000054913*0*P*^
GS*SR*GENERIC*CN*20250128*1454*0092*X*008050

ST*404*00920001
BX*00*R*PP**CN*K*B*N***10*N*2
BNX*S**S
M3*R*20250128*1454
N9*BM*1257**20250128*1336
N9*PO*24002754
N9*WM*911
N9*HS*48051000007
N7*CGTX*12345*96981*N*******RR
M7*12345
F9**WATSON*SK
D9**GROOS*MI
N1*SH*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*WATSON*SK*S0K 4V0*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM
N1*CN*GENERIC CONSIGNEE CO
N3*12 SMITH STREET
N4*GROOS*MI*12345*US
N1*PF*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*WATSON*SK*S0K 4V0*CA
N1*XU*US CUSTOMS BROKER SERVICES
N3*555 MAIN STREET
N4*PORT HURON*MI*12345*US
R2*CN*S*SUPER
R2*UP*1
LX*1
L5*1*SODIUM CHLORATE*4918723*T
L0*1***96981*N***1*TKR
MEA*AI*VOL*250.6041*CR***15
MEA**VWT*0.7167*KC***15
X1*******CA***1*22822.45**RL
LS*LH1
LH1*TK*1*UN1495**4918723*KG*96981***II
LH2*5.1*P
LH3*SODIUM CHLORATE*C
LH4***II
LHT*5.1
PER*HM*offeror name or contract number*TE*123-123-1234
PER*CN*offeror name or contract number*TE*321-321-4321
N1*SH*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*WATSON*SK*S0K 4V0*CA
LE*LH1
LH6*JOHN Q SHIPPER
XH*USD
SE*52*00920001
GE*1*0092
IEA*1*000054913

<u>BX Segment: General Shipment Information</u>

BX*00*R*PP**CN*K*B*N***10*N*2

Ref. Des.	Name	Data Element	Attributes

_____

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

BNX Segment: Rail Shipment Information

BNX*SS**

Ref. Des.	Name	Data Element	Attributes		

_____

BNX01	Shipment Weight Code (S = Shipper Certified Scale 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 at a future time.

M3*R*20250128*1454

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 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59 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*125720250128*1336**
N9*PO*24002754
N9*WM*911
N9*HS*48051000007

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM = Bill of Lading number) (WM = Weight Agreement Number (PO = Purchase order Number) (HS=harmonized code)	128	ID	2/3
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 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59	337	TM	4/8

DD=decimal seconds in tenths and hundredths 00-99)

N7 Segment: Equipment Details

N7*CGTX*12345*96981*N*****RR**

Ref. 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 (N = Net Weight)	187	ID	1/2
N711	Equipment Description Code (RR = Railcar}	40	ID	2/2

M7 Segment: Seal Numbers

M7*123456

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.

F9WATSON*SK**

Ref. 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**GROOS*MI

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

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

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*JOHNDOE@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*SUPER
R2*UP*1

Ref. Des.	Name	Data Element	Attributes	
R201	Standard Carrier Alpha Code (SCAC) (CN = Canadian National) (UP = Union Pacific)	140	ID	2/4
R202	Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail))	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*SODIUM CHLORATE*4918723*T

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

L0 Segment: Line Item - Quantity and Weight

L0*1*96981*N***1*TKR**

Ref. Des.	Name	Data Element	Attributes	
L001	Lading Line Item Number	213	N0	1/6
L004	Weight	81	R	1/8
L005	Weight Qualifier	187	ID	1/2
	(N = Net Weight)			
L008	Lading Quantity	80	N0	1/5
L009	Packaging Form Code	211	ID	3/3
	(TKR=tank car)			

MEA Segment: Measurements

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

MEA*AI*VOL*250.6041*CR*15**
MEAVWT*0.7167*KC***15**

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

X1 Segment: Export License

Mandatory for transborder shipments

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

Ref.	Name	Data Element	Attributes

Des.

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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 (1P=tank car)	355	ID	2/2

LS Segment: Loop Header

LS*LH1

Ref. Des.	Name	Data Element	Attributes	

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LS01	Loop Identifier Code	447	AN	1/6

LH1 Segment: Hazardous Identification Information

LH1*TK*1*UN14954918723*KG*96981***II**

Ref. Des.	Name	Data Element	Attributes	

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LH101	Unit or Basis for Measurement Code (TK=Tank)	355	ID	2/2
LH102	Lading Quantity	80	NO	1/5
LH103	UN or NA Identification Code	277	ID	6/6
LH105	Commodity Code	22	AN	1/30
LH106	Unit or Basis for Measurement Code (LB=Pounds) (KG = Kilograms)	355	ID	2/2
LH107	Quantity	380	R	1/15
LH110	Packing Group Code	254	ID	1/3

LH2 Segment: Hazardous Classification Information

LH2*5.1*P

Ref. Des.	Name	Data Element	Attributes	

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LH201	Hazardous Classification	215	ID	1/30
LH202	Hazardous Class Qualifier (P=Primary)	983	ID	1/1

LH3 Segment: Hazardous Material Shipping Name Information

LH3*SODIUM CHLORATE*C

Ref. Des.	Name	Data Element	Attributes	
LH301	Hazardous Material Shipping Name	224	AN	1/25
LH302	Hazardous Material Shipping Name Qualifier	984	ID	1/1

Qualifier indicating the source (regulatory) of the proper shipping name.
(C = Canadian Shipping Name)

LH4 Segment: Canadian Dangerous Requirements

LH4*II**

Ref. Des.	Name	Data Element	Attributes	
LH403	Packing Group	254	ID	1/3

PER Segment: Hazardous Communications Contact

PER*CN*offeror name or contract number*TE*321-321-4321
PER*HM*offeror name or contract number*TE*123-123-1234

Ref. Des.	Name	Data Element	Attributes	
PER01	Contact Function Code	366	ID	2/2

(HM=primary 24-hour Hazardous Material Contact emergency phone number)
(CN=Canadian Hazardous Material Contact 24-hour emergency phone number)

PER02	Name	93		AN	1/35

**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.

PER03	Communication Number Qualifier (TE=Telephone)	365		ID	2/2
PER04	Communication Number	364		AN	1/80

N1 Segment: Party Identification

Within the LH1 Loop

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

N1*SH*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*WATSON*SK*S0K 4V0*CA

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

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	

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 as required by Transport Canada regulations (TDG 3.6.1) and US Federal Regulations (49CFR 172.204)

The certification must be made by an individual who is the consignor or by an individual acting on behalf of the consignor and must set out that individual's name.

LH6*JOHN Q SHIPPER

Ref. Des.	Name	Data Element	Attributes	
LH601	Name	93	AN	1/35

XH Segment: Pro Forma - B13 Information

XH*USD

Ref. Des.	Name	Data Element	Attributes	
XH01	Currency Code	100	ID	3/3