Implementation Guide
Rail Carrier Shipment Information

EDI 404

Intermodal Bill of Lading
Canada to USA
General Merchandise

Version 008030

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 intermodal shipments of general merchandise from a Canadian origin to a US destination.

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

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 Intermodal 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 for **Intermodal traffic from a Canadian origin to a CN destination in the USA, ramp-to-ramp:**

EDI 404 with mandatory transborder data highlighted in bold red.

```
ISA*00*       *00*      *ZZ*GENERIC    *02*CN        *231116*1454*U*00803*000054913*0*P*^
GS*SR*GENERIC*CN*20231116*1454*0092*X*008030
ST*404*00001
BX*00*X*PP**CN*L*B*N***30**2
BNX*N**S
M3*R*20231116*1454
N9*BM*1234**2023116*1454
N9*PO*123456**20231116*1454
N9*HS*847989
N7*CNRU*222111*13887*N*******CN****4000
M7*123456
F9**MONTREAL TASCH YARd*PQ
D9**CHICAGO INTER TERM*IL
N1*SH*INTERMODAL SHIPPER INC
N3*123 MAIN ROAD
N4*MONTREAL*PQ*H4T 1T1*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*INTERMODAL CONSIGNEE INC
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*PF*FREIGHT INVOICE PAYOR
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*XU*BROKER NAME INC
N3*123 MAIN ROAD
N4*PORT HURON*MI*12345*US
N1*N1*INTERMODAL SHIPPER INC
N4*CHICAGO*IL*12345*US
N1*UC*ABCD CO
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*BN*ACME INC
N3*ONE STATION GATE
N4*ROMFORD*ON*M9W 1R6*CA
R2*CN*S***25
LX*1
L5*1*VARIABLE SPEED DRIVES*3599990*T
L0*1***13887*N***530*PCS**L
SE*41*00001
GE*1*00001
IEA*1*000054913
```

ISA Segment: Interchange Control Header

ISA*00*   *00*   *ZZ*GENERIC   *02*CN   *231116*1454*U*08031*000054913*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 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*20231116*1454*0092*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*00001

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*X*PPCN*L*B*N***30**2**

Ref. Des.	Name	Data Element	Attributes	
BX01	Transaction Set Purpose Code (00 = Original)	353	ID	2/2
BX02	Transportation Method/Type Code (X = Intermodal {Piggyback})	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
BX08	Section Seven Code (N = not in effect)	226	ID	1/1
BX11	Customs Documentation Handling Code (30 = Proforma with Broker Port of Exit/B13 Not Required)	501	ID	2/2
BX13	Tax reason Code (2 = GST Exemption Declaration)	714	ID	1/1

BNX Segment: Rail Shipment Information

BNX*NS**

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (N = Per car or Contract charge)	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 date.

M3*R*20231116*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)	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*12342023116*1454**
N9*PO*12345620231116*1454**
N9*HS*847989

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM = Bill of Lading Number) (PO = Purchase Order Number) (HS = harmonized system code)	128	ID	2/3
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/80
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 DD=decimal seconds in tenths and hundredths 00-99)	337	TM	4/8

N7 Segment: Equipment Details

N7*CNRU*222111*13887*N*****CN****4000**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	206	AN	1/4
N702	Equipment Number	207	AN	1/15
N703	Weight	81	R	1/10
N704	Weight Qualifier (N = net weight)	187	ID	1/2
N711	Equipment Description Code (CN = Container)	40	ID	2/2
N715	Equipment Length (4000 = 40 feet) Outside length required for intermodal equipment	567	N0	4/5

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 terminal listing can be found at end of this document.

F9MONTREAL TASCH YARD*PQ**

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

D9 Segment: Destination Station

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN terminal listing can be found at end of this document.

D9CHICAGO INTER TERM*IL**

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

N1 Segment: Party Identification

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are required for the Consignee and any other Additional Parties to the shipment.

N1*SH*INTERMODAL SHIPPER INC
N3*123 MAIN ROAD
N4*MONTREAL*PQ*H4T 1T1*CA
N1*CN*INTERMODAL CONSIGNEE INC
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*PF*FREIGHT INVOICE PAYOR
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*XU*BROKER NAME INC
N3*123 MAIN ROAD
N4*PORT HURON*MI*12345*US
N1*N1*INTERMODAL SHIPPER INC
N4*CHICAGO*IL*12345*US
N1*UC*ABCD CO
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*BN*ACME INC
N3*ONE STATION GATE
N4*ROMFORD*ON*M9W 1R6*CA

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code	98	ID	2/2
	(SH = Shipper)			
	(CN = Consignee)			
	(BN = Beneficial Owner)			
	(N1 = Notify Party)			
	(PF = Payor of Freight)			
	(UC = Ultimate Consignee)			
	(XU = US Customs Broker)			
N102	Name	93	AN	1/27

N3 Segment: Party Location

Ref. Des.	Name	Data Element	Attributes	

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@INTSHIP.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) (EM = email)	365	ID	2/2
PER04	Communication number	364	AN	1/80
PER05	Communication Number Qualifier	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*25**

Ref. Des.	Name	Data Element	Attributes	
R201	Standard Carrier Alpha Code (SCAC)	140	ID	2/4
R202	Routing Sequence Code	133	ID	1/2
	(S = Origin Carrier, Shipper's Routing (Rail))			
R205	Intermodal Service Code	177	ID	1/2
	(25 = Ramp to Ramp; rail owned equipment)			

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*VARIABLE SPEED DRIVES*3599990*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))			
	(4611110 is only valid for use on domestic shipments)			
L504	Commodity Code Qualifier	23	ID	1/1
	(T = Standard Transportation Commodity Code (STCC))			

L0 Segment: Line Item - Quantity and Weight

L0*1*13887*N***530*PCS**L**

Ref. Des.	Name	Data Element	Attributes	
L001	Lading Line Item Number	213	N0	1/6
L004	Weight	81	R	1/10
L005	Weight Qualifier	187	ID	1/2
	(N = Actual Net Weight)			
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code	211	ID	3 /3
	(PCS = Pieces)			
	(BDL = Bundles)			
L011	Weight Unit Code	188	ID	1/1
	(L = Pounds)			

SE Segment: Transaction Set Trailer

SE*40*00001

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

GE Segment: Functional Group Trailer

GE*1*00001

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

IEA Segment: Interchange Control Trailer

IEA*1*000054913

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 Intermodal 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 for **Intermodal traffic from a Canadian origin to a CN destination in the USA, door to door:**

EDI 404 with mandatory transborder data highlighted in bold red.

```
ISA*00*        *00*        *ZZ*GENERIC        *02*CN        *231116*1454*U*00803*000054913*0*P*^
GS*SR*GENERIC*CN*20231116*1454*0092*X*008030
ST*404*00001
BX*00*X*PP**CN*L*B*N***30**2
BNX*N**S
M3*R*20231116*1454
N9*BM*1234**2023116*1454
N9*PO*123456**20231116*1454
N9*HS*847989
N7*CNRU*222111*13887*N*******CN****4000
M7*123456
F9**MONTREAL*PQ
D9**CHICAGO*IL
N1*SH*INTERMODAL SHIPPER INC
N3*123 MAIN ROAD
N4*MONTREAL*PQ*H4T 1T1*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*INTERMODAL CONSIGNEE INC
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*PF*FREIGHT INVOICE PAYOR
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*XU*BROKER NAME INC
N3*123 MAIN ROAD
N4*PORT HURON*MI*12345*US
N1*N1*INTERMODAL SHIPPER INC
N4*CHICAGO*IL*12345*US
N1*UC*ABCD CO
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*BN*ACME INC
N3*ONE STATION GATE
N4*ROMFORD*ON*M9W 1R6*CA
R2*CN*S***20
LX*1
L5*1*VARIABLE SPEED DRIVES*3599990*T
L0*1***13887*N***530*PCS**L
SE*38*00001
GE*1*00001
IEA*1*000054913
```

BX Segment: General Shipment Information

BX*00*X*PPCN*L*B*N***30**2**

Ref. Des.	Name	Data Element	Attributes	
BX01	Transaction Set Purpose Code (00 = Original)	353	ID	2/2
BX02	Transportation Method/Type Code (X = Intermodal {Piggyback})	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
BX08	Section Seven Code (N = not in effect)	226	ID	1/1
BX11	Customs Documentation Handling Code (30 = Proforma with Broker Port of Exit/B13 Not Required)	501	ID	2/2
BX13	Tax reason Code (2 = GST Exemption Declaration)	714	ID	1/1

BNX Segment: Rail Shipment Information

BNX*NS**

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (N = Per car or Contract charge)	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*20231116*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)	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*12342023116*1454**
N9*PO*12345620231116*1454**
N9*HS*847989

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM = Bill of Lading Number) (PO = Purchase Order Number) (HS = harmonized system code)	128	ID	2/3
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/80
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 DD=decimal seconds in tenths and hundredths 00-99)	337	TM	4/8

N7 Segment: Equipment Details

N7*CNRU*222111*13887*N*****CN****4000**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	206	AN	1/4
N702	Equipment Number	207	AN	1/15
N703	Weight	81	R	1/10
N704	Weight Qualifier (N = Net weight)	187	ID	1/2
N711	Equipment Description Code (CN = Container)	40	ID	2/2
N715	Equipment Length (4000 = 40 feet) Outside length required for intermodal equipment	567	N0	4/5

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 terminal listing can be found at end of this document.

F9MONTREAL*PQ**

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

D9 Segment: Destination Station

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN terminal listing can be found at end of this document.

D9**CHICAGO*IL

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

N1 Segment: Party Identification

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

N1*SH*INTERMODAL SHIPPER INC
N3*123 MAIN ROAD
N4*MONTREAL*PQ*H4T 1T1*CA
N1*CN*INTERMODAL CONSIGNEE INC
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*PF*FREIGHT INVOICE PAYOR
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*XU*BROKER NAME INC
N3*123 MAIN ROAD
N4*PORT HURON*MI*12345*US
N1*N1*INTERMODAL SHIPPER INC
N4*CHICAGO*IL*12345*US
N1*UC*ABCD CO
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*BN*ACME INC
N3*ONE STATION GATE
N4*ROMFORD*ON*M9W 1R6*CA

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code	98	ID	2/2
	(SH = Shipper)			
	(CN = Consignee)			
	(BN = Beneficial Owner)			
	(PF = Payor of Freight)			
	(N1 = Notify Party)			
	(UC = Ultimate Consignee)			
	(XU = US Customs Broker)			
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@INTSHIP.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) (EM = email)	365	ID	2/2
PER04	Communication number	364	AN	1/80
PER05	Communication Number Qualifier	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***20

Ref. Des.	Name	Data Element	Attributes	
R201	Standard Carrier Alpha Code (SCAC)	140	ID	2/4
R202	Routing Sequence Code	133	ID	1/2
	(S = Origin Carrier, Shipper's Routing (Rail))			
R205	Intermodal Service Code	177	ID	1/2
	(20 = Door to Door; rail owned equipment)			

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*VARIABLE SPEED DRIVES*3599990*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*13887*N***530*PCS**L**

Ref. Des.	Name	Data Element	Attributes	
L001	Lading Line Item Number	213	N0	1/6
L004	Weight	81	R	1/10
L005	Weight Qualifier (N = Actual Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (BDL = Bundles)	211	ID	3/3
L011	Weight Unit Code (L = Pounds)	188	ID	1/1

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

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

Example EDI Transmission with required data for the 404 Transaction Set for Intermodal traffic from a **Canadian origin to a CN destination in the USA, moving in bond in the United States, ramp-to-ramp:**

As of August 2018, the HTSUS harmonized code must be included in either the N9 or N10 segments. The destination FIRMS code must be included in either the N9 or M12 segments.

EDI 404 with mandatory transborder data highlighted in bold red.

```
ISA*00*        *00*        *ZZ*GENERIC        *02*CN            *231116*1454*U*00803*000054913*0*P*^
GS*SR*GENERIC*CN*20231116*0040*00001*X*008030
ST*404*00001
BX*00*X*PP**CN*L*B*N***30**2
BNX*N**S
M3*R*20231116*1454
N9*BM*123456**20231116*1454
N9*PO*123456**20231116*1454
N9*HS*85044090
N9*FRC*A123
N7*CNRU*222111*13887*N*******CN****4000
M7*12345
M12*61**1234**50000*********A123
N10*530***J*85044090*50000*******USD
F9**MONTREAL TASCH YARD*PQ
D9**CHICAGO INTER TERM*IL
N1*SH*INTERMODAL SHIPPER INC
N3*123 MAIN ROAD
N4*MONTREAL*PQ*H4T 1T1*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*INTERMODAL CONSIGNEE INC
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*PF*INVOICE PAYOR
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*XU*BROKER NAME INC
N3*123 MAIN ROAD
N4*PORT HURON*MI*12345*US
N1*N1*INTERMODAL CONSIGNEE INC
N4*CHICAGO*IL*12345*US
N1*UC*ABCD CO
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*BN*ACME INC
N3*ONE STATION GATE
N4*ROMFORD*ON*M9W 1R6*CA
R2*CN*S***15
LX*1
L5*1*VARIABLE SPEED DRIVES*3599990*T
L0*1***13887*N***530*PCS**L
SE*43*00001
GE*1*00001
IEA*1*000054913
```

BX Segment: General Shipment Information

BX*00*X*PP**CN*L*B*N***30**2

Ref. Des.	Name	Data Element	Attributes	
BX01	Transaction Set Purpose Code (00 = Original)	353	ID	2/2
BX02	Transportation Method/Type Code (X = Intermodal {Piggyback})	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
BX08	Section Seven Code (N=not in effect)	226	ID	1/1
BX11	Customs Documentation Handling Code (30 = Proforma with Broker Port of Exit/B13 Not Required)	501	ID	2/2
BX13	Tax reason Code (2 = GST Exemption Declaration)	714	ID	1/1

BNX Segment: Rail Shipment Information

BNX*N**S

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (N = Per car or Contract charge)	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*20231116*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)	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*12345620231116*1454**
N9*PO*12345620231116*1454**
N9*HS*85044090
N9*FRC*A123

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM = Bill of Lading Number) (PO = Purchase Order Number) (HS = harmonized system code) (FRC=FIRMS Code)	128	ID	2/3
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/80
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 DD=decimal seconds in tenths and hundredths 00-99)	337	TM	4/8

N7 Segment: Equipment Details

N7*CNRU*222111*13887*N*******CN****4000

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	206	AN	1/4
N702	Equipment Number	207	AN	1/15
N703	Weight	81	R	1/10
N704	Weight Qualifier (N = net weight)	187	ID	1/2
N711	Equipment Description Code (CN = Container)	40	ID	2/2
N715	Equipment Length (4000 = 48 feet) Outside length required for intermodal equipment	567	N0	4/5

M7 Segment: Seal Numbers

M7*123456

Ref. Des.	Name	Data Element	Attributes	
M701	Seal Number	225	AN	2/15

M12 Segment: In-bond Identifying Information

M12*61**1234**50000********A123

Ref. Des.	Name	Data Element	Attributes	
M1201	Customs Entry Type Code (61=Immediate Transportation)	581	ID	2/3
M1203	Location Identifier (1234=Port Code)	310	AN	1/30
M1205	Customs Shipment Value Customs value in whole dollars **Required for US bonds.**	602	N0	2/9
M1214	Location Identifier (A123= FIRMS code) Facilities Information and Resources Management System	310	AN	1/30

N10 Segment: Quantity and Description

N10*530*J*85044090*50000******USD**

Ref. Des.	Name	Data Element	Attributes	
N1001	Quantity	380	R	1/15
	Required for each harmonized code.			
N1004	Commodity Code Qualifier	23	ID	1/1
	(J = Harmonized system code)			
N1005	Commodity Code	22	AN	1/30
N1006	Customs Shipment Value	602	AN	2/8
N1013	Currency Code	100	ID	3/3
	US Dollars only			

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) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN terminal listing can be found at end of this document.

F9MONTREAL TASCH YARD*PQ**

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

D9 Segment: Destination Station

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN terminal listing can be found at end of this document.

D9CHICAGO INTER TERM*IL**

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

N1 Segment: Party Identification

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are required for the Consignee and any other Additional Parties to the shipment.

N1*SH*INTERMODAL SHIPPER INC
N3*123 MAIN ROAD
N4*MONTREAL*PQ*H4T 1T1*CA
N1*CN*INTERMODAL CONSIGNEE INC
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*PF*INVOICE PAYOR
N3*12 SMITH STREET
N4*CHICAGO*IL*12345*US
N1*XU*BROKER NAME INC
N3*123 MAIN ROAD
N4*PORT HURON*MI*12345*US
N1*N1*INTERMODAL CONSIGNEE INC
N4*CHICAGO*IL*12345*US
N1*UC*ABCD CO
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*BN*ACME INC
N3*ONE STATION GATE
N4*ROMFORD*ON*M9W 1R6*CA

Ref. Des.	Name	Data Element	Attributes		
N101	Entity Identifier Code	98	ID	2/2	
	(SH = Shipper)				
	(CN = Consignee)				
	(BN = Beneficial Owner)				
	(N1 = Notify Party)				
	(PF = Payor of Freight)				
	(UC = Ultimate Consignee)				
	(XU = US Customs Broker)				
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@INTSHIP.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) (EM = email)	365	ID	2/2
PER04	Communication number	364	AN	1/80
PER05	Communication Number Qualifier	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***25

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))	133	ID	1/2
R205	Intermodal Service Code (25 = Ramp to Ramp; rail owned equipment)	177	ID	1/2

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*VARIABLE SPEED DRIVES*3599990*T

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

L0 Segment: Line Item - Quantity and Weight

L0*1*13887*N***530*PCS**L**

Ref. Des.	Name	Data Element	Attributes	
L001	Lading Line Item Number	213	N0	1/6
L004	Weight	81	R	1/10
L005	Weight Qualifier (N = Actual Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (PCS = Pieces)	211	ID	3/3
L011	Weight Unit Code (L = Pounds)	188	ID	1/1

CN Intermodal Terminals and Ports

The following lists CN Intermodal Terminals and Port Operations that can be an origin and destination on CN lines.   Please use the full station name on the EDI 404.

D/K	SPLC	Station Abbr. 333	St/Pr	Full Station Name
	328754	ARCADIA	WI	ARCADIA
01535	044761	BRAINTTER	ON	BRAMPTON INTER TERM
	082417	CALLOGPAR	AB	CALGARY LOGIST PARK
	328180	CHIFALLS	WI	CHIPPEWA FALLS
3901	380002	CHIINTTER	IL	CHICAGO INTER TERM
3801	315986	DETINTTER	MI	DETROIT INTER TERM
	500900	DULUTH	MN	DULUTH
80101	085646	EDMINTTER	AB	EDMONTON INTER TERM
13841	012548	FAICOVIMP	NS	FAIRVIEW COVE IMPEX
12493	093614	FRASURIMP	BC	FRASER SURREY IMPEX
13841	012504	HALHALTER	NS	HALIFAX HALTERM TER
13841	012500	HALIFAX	NS	HALIFAX
13841	012501	HALINTTER	NS	HALIFAX INTER TERM
	368700	INDINTTER	IN	INDIANAPOLIS INTER TERM
2015	487230	JACKSON	MS	JACKSON
3901	384040	JOLYARD	IL	JOLIET YARD
	047712	MALPORT	ON	MALPORT
2006	439875	MEMINTTER	TN	MEMPHIS INTER TERM
01535	044716	MISINTSER	ON	MISSISSAUGA INT SER
	479800	MOBILE	AL	MOBILE
01822	030313	MONBICKER	PQ	MONTREAL BICKERDIKE
13400	015289	MONINTTER	NB	MONCTON INTER TERM
01822	030308	MONTERMON	PQ	MONTREAL TERMONT
01822	030191	MONTASYAR	PQ	MONTREAL TASCH YAR
01822	030318	MONRACTER	PQ	MONTREAL RACINE TER
01822	030305	MONWHARF	PQ	MONTREAL WHARF
01822	030002	MONULTDEP	PQ	MONTREAL ULTRA DEPO
2002	646505	MAYYARD	LA	MAYS YARD
2002	647000	NEWORLEAN	LA	NEW ORLEANS
2002	329248	NEWRICHMO	WI	NEW RICHMOND
12200	096201	PRIGEORGE	BC	PRINCE GEORGE
12442	097438	PRIRUPTER	BC	PRINCE RUPERT TERM
	070156	REGINTTER	SK	REGINA INTER TERM
12493	093804	ROBBANK	BC	ROBERTS BANK
80103	072420	SASINTTER	SK	SASKATOON INTER TER
14428	016004	STJOHIMPE	NB	SAINT JOHN IMPEX
12493	093932	VANCENPIE	BC	VANCOUVER CENT PIER
12493	093696	VANINTTER	BC	VANCOUVER INTER TER
12493	093934	VANVANTER	BC	VANCOUVER VANTERM
80102	061265	WINSYMYAR	MB	WINNIPEG SYMINGTON YARD

Intermodal Service Codes

Code	Equipment Owner	Service	Note: International versus Domestic
15	Motor Carrier	Ramp to Ramp	
20	Rail Carrier	Door to Door	
22	"	Door to Ramp	
25	"	Ramp to Ramp	
27	"	Ramp to Door	
40	SS Line - Domestic	Door to Door	Domestic containers movements without prior or subsequent waterborne movement. Applies to US/Canada/Mexico traffic. Equipment supplied by stack operation or Steamship Line.
42	"	Door to Ramp	
45	"	Ramp to Ramp	
47	"	Ramp to Door	
60	Patron / Customer	Door to Door	
62	"	Door to Ramp	
65	"	Ramp to Ramp	
67	"	Ramp to Door	
80	SS Line - IMPEX	Door to Door	International shipments with prior or subsequent waterborne movement. Includes Alaska, Hawaii, Puerto Rico. Equipment supplied by stack operation or steamship Line.
82	"	Door to Ramp	
85	"	Ramp to Ramp	
87	"	Ramp to Door	