



Implementation Guide Rail Carrier Shipment Information

EDI 404

**Intermodal Bill of Lading
Ocean Traffic
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 Basic EDI 404 (Rail Bill of Lading) Requirements

The enclosed documentation covers information required to handle import traffic for domestic and cross-border shipments and export traffic from Canada and the US to a Port.

This format also includes using the Ocean Shipper's bond in Canada and Canada to US (Chicago).

We are also including the format for you to provide the customs manifest number and VBond number for each shipment. These two items would be under your control rather than generated by us and allow you to clear your cross-border shipments much farther in advance.

Canadian National Railway - Electronic Commerce Ocean Shipper 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 for Ocean import traffic:

ISA*00* *00* *ZZ*GENERIC *02*CN *250116*1454*U*00805*000054913*0*P*^
GS*SR*GENERIC*CN*20250116*1454*0092*X*008050
ST*404*00920001
BX*00*X*PP**CN*K*B*N
BNX*M**S
M3*R*20250116*1454
N9*BM*ZZZ231103970**20250116*1454
N9*BN*233301451**20250116*1454
N9*RC*121317
N9*CM*CSD
N9*CMH*CARRIER
N9*FRC*A949
N9*OB*233301451*1650*20250116*1454
N9*PDF*NOEEI30.37(E)
CM*344N*L*PECEM PORT OF*****MONTE TAMARO
N7*ABCU*222111*20000*N*****CN****4000***1
M7*1112222
M12*62*ZZZ BOND*0901**20***S4*ZZZ BOND
REF*OB*1234CECAIMP233301451
N10*1650*VITA COCO COCONUT WATER*****K*20000**PCS
F9**FAIRVIEW COVE IMPEX*NS
D9**BRAMPTON INTER TERM*ON
N1*SH*OCEAN SHIPPER INC
N3*INTERMODAL RAMP
N4*FAIRVIEW COVE IMPEX*NS*B3L 3Y6*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*OCEAN CONSIGNEE CO
N3*INTERMODAL RAMP
N4*BRAMPTON INTER TERM*ON*L6T 5K1*CA
N1*PF*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*CHICAGO*IL*12345*US
PER*AD**TE*5555551234
N1*BN*OCEAN CONSIGNEE CO
N3*555 DAY ST
N4*TORONTO*ON*L6T 5K1*CA
N1*XQ*ABC CUSTOMS BROKER
N3*111 FIRST ST
N4*TORONTO*ON*L6T 5K1*CA
N1*N1*KUEHNE NAGEL LTD
PER*NT**TE*8885551111
R2*CN*S***85
LX*1
L5*1*VITA COCO COCONUT WATER*4611110*T
L0*1***20000*N***01650*PCS
PI*CT*CN555555
SE*49*00920001
GE*1*0092
IEA*1*000054913

ISA Segment: Interchange Control Header

ISA*00* *00* *ZZ*GENERIC *02*CN *250116*1454*U*00805*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*20250116*1454*0092*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 (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*00920001

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*PP**CN*K*B*N**

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) (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

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

Ref. Des.	Name	Data Element	Attributes
BNX01	Shipment Weight Code (M =Manifest 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*20250116*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*ZZZ23110397020231124*0845**
N9*BN*23330145120231124*0845**
N9*RC*121317
N9*CM*CSD
N9*CMH*CARRIER
N9*FRC*A949
N9*OB*233301451*1650*20231124*0845
N9*PDF*NOEEI30.37(E)

Ref. Des.	Name	Data Element	Attributes
N901	Reference Number Qualifier (BM = Bill of Lading number) (BN = Booking Number) (RC = rail routing code) (CM = Buyer's credit memo) (CMH = Carrier//Merchant Intermodal International Haulage Identification) (FRC = FIRMS code) (OB = Ocean Bill of Lading Number) (PDF = Census Post Departure Filing Number)	128	ID 2/3
N902	Reference Number (Max 15 characters for B/L # (BM)) (For N9*CMH, the N902 must be CARRIER or MERCHANT)	127	AN 1/80
N903	Shipment Piece Count (For N9*OB only)	369	AN 1/45
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

CM Segment: Cargo Manifest

To identify specific flight or voyage information for intermodal shipments

CM*344N*L*PECEM PORT OF***MONTE TAMARO**

Ref. Des.	Name	Data Element	Attributes	
CM01	Flight/Voyage Number	55	AN	2/30
CM02	Port Function Code (L = Port of Loading) First port at which the cargo is loaded to the first vessel.	115	ID	1/1
CM03	Port Name Free form name for the place at which an offshore carrier originates or terminates its actual ocean carriage of property	114	AN	2/24
CM09	Vessel Name Name of ship as documented in "Lloyd's Register of Ships."	182	AN	2/28

N7 Segment: Equipment Details

N7*ABCU*222111*2000*N***CN****4000****1**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	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 (CN = Container)	40	ID	2/2
N715	Equipment Length (4000 = 40 feet) Outside length required for intermodal equipment	567	NO	4/5
N718	Equipment Number Check Digit	761	NO	1/1

M7 Segment: Seal Numbers

M7*1112222

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

M12 Segment: In-bond Identifying Information

M12*62*ZZZ BOND*090120***S4*ZZZ BOND**

Ref. Des.	Name	Data Element	Attributes
M1201	Customs Entry Type Code (61=Immediate Transportation) (62=Transportation Exportation (T&E) bond)	581	ID 2/3
M1202	Customs Entry Number Automated Commercial System Code furnished by US Customs Service <i>**Carriers authorized to participate in paperless in-bond will be assigned a 3-position filer Identification code.</i>	601	AN 1/50
M1203	Location Identifier <i>**If M1201 is 61, this will be the port of destination</i> <i>**If M1201 is 62, this will be the port of export</i>	310	AN 1/30
M1205	Customs Shipment Value Customs value in whole dollars <i>**Required for US bonds. Represents the total of all X111's plus XH04 for shipments intended to move In-Bond into the US</i>	602	N0 2/8
M1208	Reference Identification Qualifier (S4 = Shipper's Bond Number)	128	ID 2/3
M1209	Reference Identification <i>**Contains the IRS number or Standard Carrier Alpha Code (SCAC) of the bond holder identified in M1208 for codes "BI" or "S4."</i> <i>**If used for Canadian In-Bond reporting, this will contain the Cargo Control Number (CCN)</i>	127	AN 1/30

REF Segment: Reference Information

Within N7/REF Loop

REF*OB*1234CECAIMP233301451

Ref. Des.	Name	Data Element	Attributes
REF01	Reference Identification Qualifier (OB = Ocean Bill of Lading) <i>**If REF*OB is used, an N10 loop is required.</i>	128	ID 2/3
REF02	Reference Identification	127	AN 1/30

N10 Segment: Quantity and Description

Within N7/REF Loop

N10*1650*VITA COCO COCONUT WATER***K*20000**PCS**

Ref. Des.	Name	Data Element	Attributes
N1001	Quantity	380	R 1/15
N1002	Free Form Description Used for Commodity Description	369	AN 1/45
N1007	Weight Unit Code <i>**Mandatory if M1201 is 62 or 63 for export</i>	188	ID 1/1
N1008	Weight <i>**Mandatory if M1201 is 62 or 63 for export</i>	81	R 1/8
N1010	Manifest Unit Code	599	ID 1/3

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 Intermodal terminal listing can be found at end of this document.

F9FAIRVIEW COVE IMPEX*NS**

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 Intermodal terminal listing can be found at end of this document.

D9BRAMPTON INTER TERM*ON**

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*OCEAN SHIPPER INC
N3*INTERMODAL RAMP
N4*FAIRVIEW COVE IMPEX*NS*B3L 3Y6*CA
N1*CN*OCEAN CONSIGNEE CO
N3*INTERMODAL RAMP
N4*BRAMPTON INTER TERM*ON*L6T 5K1*CA
N1*PF*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*CHICAGO*IL*12345*US
N1*BN*OCEAN CONSIGNEE CO
N1*555 DAY ST
N3*TORONTO*ON*L6T 5K1*CA
N1*XQ*ABC CUSTOMS BROKER
N3*111 FIRST ST
N4*TORONTO*ON*L6T 5K1*US
N1*N1*KUEHNE NAGEL LTD**

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (BN = Beneficial Owner) (N1 = Notify Party) (PF = Payor of freight) (XQ = Canadian 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

Provides contact information for the party identified in the previous N1 segment.

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
PER*ADTE*5555551234**
PER*NTTE*8885551111**

Ref. Des.	Name	Data Element	Attributes
PER01	Contact Function Code (IC=information contact) (AD = Accounting Department) (NT = Notification Contact)	366	ID 2/2
PER03	Communication Qualifier Number (TE=telephone number)	365	ID 2/2
PER04	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*85**

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 (85 = Ramp to Ramp Impex)	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*VITA COCO COCONUT WATER*4611110*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*20000*N***01650*PCS**

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

PI Segment: Price Authority Identification

PI*CT*CN555555

Ref. Des.	Name	Data Element	Attributes	
PI01	Reference Number Qualifier (CT = contract)	128	ID	2/3
PI02	Reference Number	127	AN	1/30

SE Segment: Transaction Set Trailer

SE*49*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*0092

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*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 Ocean Shipper 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 for Ocean import traffic to a United States CN destination:

EDI 404 with mandatory transborder data highlighted in bold red.

ISA*00* *00* *ZZ*GENERIC *02*CN *250116*1454*U*00805*000054913*0*P*^
GS*SR*GENERIC*CN*20250116*1454*00001*X*008050
ST*404*00001
BX*00*X*PP*SA00985143*CN*K*B***30*N*2
BNX*M**S
M3*R*20250116*1454
N9*BM*SA00985143**20250116
N9*BN*SA00985143
N9*SI*SA00985143
N9*OB*9016SA00985143*3
N9*MA*901600138858
N9*BJ*V3891800384
N9*HS*847989
N9*BD*3901
N9*CMH*CARRIER
CM*AST21*D*HALIFAX**SA00985143****ATLANTIC STAR****NS
N7*ABCU*2221111*7839*N***CN****2000**K*4**
M7*555555
M12*61*V3891800384*390171122***S4*13-284007400**
REF*CUB*CNRU901600138858
F9**FAIRVIEW COVE IMPEX*NS
D9**CHICAGO INTER TERM*IL
N1*SH*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*HALIFAX*NS*B3L 3Y6*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*PF*OCEAN PAYOR CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*XU*CUSTOMS BROKER
N3*111 FIRST STREET
N4*CHICAGO*IL*12345*US
N1*N1*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*UC*MACHINE SERVICES
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*SF*SMITH MACHINE INC
N3*LOTZENARBACHSTRASSE 1
N4*NEUNKIRCHEN*DE*57290*DE
R2*CN*S*85**
LX*1
L5*1*VARIABLE SPEED DRIVES*3599990*T
L0*1*7840*N***2*PCS**
X1*C*****2**
XH*USD*N*595
SE*53*00001
GE*1*00001
IEA*1*000054913

BX Segment: General Shipment Information**BX*00*X*PP*SA00985143*CN*K*B****30*N*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
BX04	Shipment Identification Number	145	AN 1/30
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
BX11	Customs Documentation Handling Code (30 = Proforma with Broker Port of Exit/B13 Not Required)	501	ID 2/2
BX12	Confidential Billing Request Code (N = Not Applicable)	199	ID 1/1
BX13	Tax reason Code (2 = GST Exemption Declaration)	714	ID 1/1

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

Ref. Des.	Name	Data Element	Attributes
BNX01	Shipment Weight Code (M =Manifest 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 date.

M3*R*20250116*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*SA0098514320250116**

N9*BN*SA00985143

N9*SI*SA00985143

N9*OB*9016SA00985143*3

N9*MA*901600138858

N9*BJ*V3891800384

N9*HS*847989

N9*BD*3901

N9*CHM*CARRIER

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM = Bill of Lading Number) (BN = Booking Number) (SI = Shipper's Identifying Number for Shipment) (OB = Ocean Bill of Lading Number/Canada Customs Cargo Control Number) (MA = Manifest Number) (BJ = Customs Vbond Number) (HS = harmonized system code) (BD = US port of exit code) (CMH = Carrier//Merchant Intermodal International Haulage Identification)	128	ID	2/2
N902	Reference Number (Max 15 characters for B/L # (BM)) (For N9*CMH, the N902 must be CARRIER or MERCHANT)	127	AN	1/80
N903	Shipment Piece Count (For N9*OB only)	369	AN	1/45
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT	8/8

CM Segment: Cargo Manifest

CM*AST21*D*HALIFAXSA00985143****ATLANTIC STAR****NS**

Ref. Des.	Name	Data Element	Attributes	
CM01	Flight/Voyage Number	55	AN	2/30
CM02	Port Function Code (D = Port of Discharge)	115	ID	1/1
CM03	Port Name	114	AN	2/24
CM05	Booking Number	13	AN	1/17
CM09	Vessel Name	182	AN	2/28
CM13	State or Province Code	156	ID	2/2

N7 Segment: Equipment Details

N7*ABCU*222111*7839*N***CN****2000**L*4**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	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 (CN = Container)	40	ID	2/2
N715	Equipment Length (4000 = 40 feet) Outside length required for intermodal equipment	567	N0	4/5
N717	Weight Unit Code (K=kilograms)	188	ID	1/1
N718	Equipment Number Check Digit	761	NO	1/1

M7 Segment: Seal Numbers

M7*55555

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

M12 Segment: In-bond Identifying Information

M12*61*V3891800384*390171122***S4*13-284007400**

Ref. Des.	Name	Data Element	Attributes
M1201	Customs Entry Type Code (61=Immediate Transportation)	581	ID 2/3
M1202	Customs Entry Number Automated Commercial System Code furnished by US Customs Service <i>**Carriers authorized to participate in paperless in-bond will be assigned a 3-position filer Identification code.</i>	601	AN 1/50
M1203	Location Identifier <i>**If M1201 is 61, this will be the port of destination **If M1201 is 62, this will be the port of export</i>	310	AN 1/30
M1205	Customs Shipment Value Customs value in whole dollars <i>**Required for US bonds. Represents the total of all X111's plus XH04 for shipments intended to move In-Bond into the US</i>	602	N0 2/8
M1208	Reference Identification Qualifier (S4 = Shipper's Bond Number)	128	ID 2/3
M1209	Reference Identification <i>**Contains the IRS number or Standard Carrier Alpha Code (SCAC) of the bond holder identified in M1208 for codes "BI" or "S4." **If used for Canadian In-Bond reporting, this will contain the Cargo Control Number (CCN)</i>	127	AN 1/30

REF Segment: Reference Information

REF*CUB*CNRU901600138858

Ref. Des.	Name	Data Element	Attributes
REF01	Reference Number Qualifier (CUB = US Customs and Border Protection (CBP) Bill of Lading Number)	128	ID 2/3
REF02	Reference Number	127	AN 1/80

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.

F9FAIRVIEW COVE IMPEX*NS**

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 terminal listing can be found at end of this document.

D9CHICAGO INTER TERM*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 required for the Consignee and any other Additional Parties to the shipment.

**N1*SH*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*HALIFAX*NS*B3L 3Y6*CA
N1*CN*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*PF*OCEAN PAYOR CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*XU*CUSTOMS BROKER
N3*111 FIRST STREET
N4*CHICAGO*IL*12345*US
N1*N1*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*UC*MACHINE SERVICES
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*SF*SMITH MACHINE INC
N3*LOTZENARBACHSTRASSE 1
N4*NEUNKIRCHEN*DE*57290*DE**

Ref. Des.	Name	Data Element	Attributes
N101	Entity Identifier Code (SH = Shipper) (SF = Ship From) (CN = Consignee) (N1 = Notify Party) (PF = Payor of freight) (UC = Ultimate Consignee) (XU = US Customs Broker)	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 2/19
N402	State or Province Code	156	ID 2/2
N403	Postal Code	116	ID 3/9
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)	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*85**

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 (85 = Ramp to Ramp Impex)	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*7840*N***2*PCS**

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

X1 Segment: Export License

Identifies the Export License.

X1C*****2**

Ref. Des.	Name	Data Element	Attributes
X103	Export License Status Code (C=complete)	51	ID 1/1
X110	Lading Quantity	80	N0 1/5

XH Segment: Pro Forma – B13 Information

Communicates Customs information on this shipment that will be passed to all customs brokers listed on the shipment.

XH*USD*N*595

Ref. Des.	Name	Data Element	Attributes
XH01	Currency Code	100	ID 3/3
XH02	Related Company Indication Code (N=transaction between unrelated companies)	645	ID 1/1
XH03	Special Charge or Allowance Code (595=Proforma invoice)	150	ID 3/3

Canadian National Railway - Electronic Commerce Ocean Shipper 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 for Ocean import traffic from the United States to a Canadian CN destination:

As of April 2020, for Ocean – US – Canada moves, a T&E bond or an entry number if cleared customs in the US (M12*62) or (N9*3T) and a Canada Customs Broker (N1*XQ) are required.

EDI 404 with mandatory transborder data highlighted in bold red.

ISA*00* *00* *ZZ*GENERIC *02*CN *250116*1454*U*00805*000054913*0*P^A
GS*SR*GENERIC*CN*20250116*1454*00001*X*008050
ST*404*00001
BX*00*X*PP*SA00985143*CN*L*B*N
BNX*N**S
M3*R*20250116*1454
N9*BM*SA00985143**20250116
N9*BN*SA00985143
N9*OB*9016SA00985143*3
N9*3T*V3891800384
N9*BD*3802
N9*CMH*CARRIER
CM*999E*D*MOBILE**SA00985143****UNKNOWN****AL
N7*ABCU*222111*7839*N***CN****2000*L*4**
M7*555555
M12*62*V3891800384*3802
F9**MOBILE*AL
D9**BRAMPTON INTER TERM*ON
N1*SH*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*MOBILE*AL*12345*US
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*TORONTO*ON*M5V1G1*CA
N1*PF*OCEAN PAYOR CO
N3*123 MAIN STREET
N4*CHICAGO*IL*12345*US
N1*XQ*CUSTOMS BROKER
N3*111 FIRST STREET
N4*TORONTO*ON*M5V1G1*CA
N1*N1*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*TORONTO*ON*M5V1G1*CA
R2*CN*S*85**
LX*1
L5*1*VARIABLE SPEED DRIVES*3599990*T
L0*1*7840*N***2*PCS**
SE*41*00001
GE*1*00001
IEA*1*000054913

BX Segment: General Shipment Information**BX*00*X*PP*SA00985143*CN*L*B*N**

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
BX04	Shipment Identification Number	I45	AN 1/30
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

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

Ref. Des.	Name	Data Element	Attributes
BNX01	Shipment Weight Code (N= moving on contract or Per Car 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*20250116*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*SA0098514320250116**

N9*BN*SA00985143

N9*OB*9016SA00985143*3

N9*3T*V3891800384

N9*BD*3802

N9*CHM*CARRIER

Ref. Des.	Name	Data Element	Attributes
N901	Reference Number Qualifier (BM = Bill of Lading Number) (BN = Booking Number) (OB = Ocean Bill of Lading Number) (3T = U.S. Customs and Border Protection (CBP) Pre-classification Ruling Number) (BD = US port of exit code) (CMH = Carrier//Merchant Intermodal International Haulage Identification)	128	ID 2/2
N902	Reference Number (Max 15 characters for B/L # (BM)) (For N9*CMH, the N902 must be CARRIER or MERCHANT)	127	AN 1/80
N903	Shipment Piece Count (For N9*OB only)	369	AN 1/45
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT 8/8

CM Segment: Cargo Manifest

CM*999E*D*MOBILESA00985143****UNKNOWN****AL**

Ref. Des.	Name	Data Element	Attributes	
CM01	Flight/Voyage Number	55	AN	2/30
CM02	Port Function Code (D = Port of Discharge)	115	ID	1/1
CM03	Port Name	114	AN	2/24
CM05	Booking Number	13	AN	1/17
CM09	Vessel Name	182	AN	2/28
CM13	State or Province Code	156	ID	2/2

N7 Segment: Equipment Details

N7*ABCU*222111*7839*N***CN****2000**L*4**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	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 (CN = Container)	40	ID	2/2
N715	Equipment Length (4000 = 40 feet) Outside length required for intermodal equipment	567	N0	4/5
N717	Weight Unit Code (L=pounds)	188	ID	1/1
N718	Equipment Number Check Digit	761	NO	1/1

M12 Segment: In-bond Identifying Information

M12*62*V3891800384*3802

Ref. Des.	Name	Data Element	Attributes	
M1201	Customs Entry Type Code (62 = Transportation Exportation)	581	ID	2/3
M1202	Customs Entry Number (V Bond Number)	601	AN	1/50
M1203	Location Identifier <i>**If M1201 is 62, this will be bond port</i>	310	AN	1/30

M7 Segment: Seal Numbers

M7*555555

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.

F9MOBILE*AL**

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 terminal listing can be found at end of this document.

D9BRAMPTON INTER TERM*ON**

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 required for the Consignee and any other Additional Parties to the shipment.

**N1*SH*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*MOBILE*AL*12345*US
N1*CN*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*TORONTO*ON*M5V1G1*CA
N1*PF*OCEAN PAYOR CO
N3*123 MAIN STREET
N4*CHICAGO*IL*12345*US
N1*XQ*CUSTOMS BROKER
N3*111 FIRST STREET
N4*TORONTO*ON*M5V1G1*CA
N1*N1*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*TORONTO*ON*M5V1G1*CA**

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (SH = Shipper) (CN = Consignee) (N1 = Notify Party) (PF = Payor of freight) (XQ = Canadian customs broker)	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 2/19
N402	State or Province Code	156	ID 2/2
N403	Postal Code	116	ID 3/9
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)	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*85**

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 (85 = Ramp to Ramp Impex)	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*7840*N***2*PCS**

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

Canadian National Railway - Electronic Commerce Ocean Shipper 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 for Ocean import traffic with transportation of in-bond merchandise in the United States.

As of November 2017, 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 *250116*1454*U*00805*000054913*0*P*^
GS*SR*GENERIC*CN*20250116*1454*00001*X*008050
ST*404*00001
BX*00*X*PP**CN*K*B*N***30*N*1
BNX*M**S
M3*R*20250116*1454
N9*BM*611451684**20250116
N9*BN*70868136**20250116
N9*FRC*H903
N9*HS*731700
N9*CMH*CARRIER
CM*010E*D*****YM TOGETHER
N7*ABCU*222111*19821*N***CN****2000**8**
M7*555555
M12*61*V3891800384*390171122***S4*13-284007400**
REF*OB*9529SHA2309HDMQ8
N10*1632*NAILS***K*19821**PCS*US**
F9**PRINCE RUPERT TERM*BC
D9**CHICAGO INTER TERM*IL
N1*SH*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*PRINCE RUPERT*BC*V0V 1G0*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*PF*OCEAN PAYOR CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*XU*CUSTOMS BROKER
N3*111 FIRST STREET
N4*CHICAGO*IL*12345*US
N1*N1*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*UC*MACHINE SERVICES
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*SF*ROHLIG CHINA LIMITED SHANGHAI
N3*ROOM 06-08,26-F,INTERNATIONAL
N4*SHANGHAI*SH*200080*CN
R2*CN*S85**
LX*1
L5*1*NAILS*4611110*T*J*731700**
L0*1*19821*N***1632*PCS**K**
SE*47*00001
GE*1*00001
IEA*1*000054913

BX Segment: General Shipment Information

BX*00*X*PPCN*K*B*N***30*N*1**

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 (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 (30 = Proforma with Broker Port of Exit/B13 Not Required)	501	ID 2/2
BX12	Confidential Billing Request Code (N = Not Applicable)	199	ID 1/1
BX13	Tax reason Code (1 = inbound GST Declaration)	714	ID 1/1

BNX Segment: Rail Shipment Information

BNX*MS**

Ref. Des.	Name	Data Element	Attributes
BNX01	Shipment Weight Code (M =Manifest 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*20250116*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*61145168420250116**

N9*BN*7086813620250116**

N9*FRC*H903

N9*HS*731700

N9*CMH*CARRIER

Ref. Des.	Name	Data Element	Attributes
N901	Reference Number Qualifier (BM = Bill of Lading Number) (BN = Booking Number) (HS=harmonized system code) (FRC=FIRMS code) (CMH = Carrier//Merchant Intermodal International Haulage Identification)	128	ID 2/2
N902	Reference Number (Max 15 characters for B/L # (BM)) (For N9*CMH, the N902 must be CARRIER or MERCHANT)	127	AN 1/80
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT 8/8

CM Segment: Cargo Manifest

CM*010E*D***YM TOGETHER**

Ref. Des.	Name	Data Element	Attributes	
CM01	Flight/Voyage Number	55	AN	2/30
CM02	Port Function Code (D = Port of Discharge)	115	ID	1/1
CM09	Vessel Name	182	AN	2/28

N7 Segment: Equipment Details

N7*ABCU*222111*19821*N***CN****2000****8**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	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 (CN = Container -not otherwise specified)	40	ID	2/2
N715	Equipment Length (2000 = 20 feet) Outside length required for intermodal equipment	567	N0	4/5
N718	Equipment Number Check Digit	761	NO	1/1

M7 Segment: Seal Numbers

M7*555555

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

M12 Segment: In-bond Identifying Information

M12*61*V3891800384*390171122***S4*13-284007400**

Ref. Des.	Name	Data Element	Attributes
M1201	Customs Entry Type Code (61=Immediate Transportation)	581	ID 2/3
M1202	Customs Entry Number Automated Commercial System Code furnished by US Customs Service <i>**Carriers authorized to participate in paperless in-bond will be assigned a 3-position filer Identification code.</i>	601	AN 1/50
M1203	Location Identifier <i>**If M1201 is 61, this will be the port of destination **If M1201 is 62, this will be the port of export</i>	310	AN 1/30
M1205	Customs Shipment Value Customs value in whole dollars <i>**Required for US bonds. Represents the total of all X111's plus XH04 for shipments intended to move In-Bond into the US</i>	602	N0 2/8
M1208	Reference Identification Qualifier (S4 = Shipper's Bond Number)	128	ID 2/3
M1209	Reference Identification <i>**Contains the IRS number or Standard Carrier Alpha Code (SCAC) of the bond holder identified in M1208 for codes "BI" or "S4." **If used for Canadian In-Bond reporting, this will contain the Cargo Control Number (CCN)</i>	127	AN 1/30

REF Segment: Reference Information

REF*OB*9529SHA2309HDMQ8

Ref. Des.	Name	Data Element	Attributes
REF01	Reference Number Qualifier (OB =Ocean Bill of Lading) **If used, N10 loop is required.	128	ID 2/3
REF02	Reference Number	127	AN 1/80

N10 Segment: Quantity and Description

N10*1632*NAILS***K*19821**PCS*US**

Ref. Des.	Name	Data Element	Attributes
N1001	Quantity	380	R 1/15
N1002	Free-form description	369	AN 1/45
N1007	Weight Unit Code (K = Kilograms)	188	ID 1/1
N1008	Weight	81	R 1/8
N1010	Manifest Unit Code (PCS = pieces)	599	ID 1/3
N1011	Country Code <i>**For North American countries, use the ISO-3166 Alpha-2 character code.</i>	26	ID 2/3

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.

F9PRINCE RUPERT TERM*BC**

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 terminal listing can be found at end of this document.

D9CHICAGO INTER TERM*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 required for the Consignee and any other Additional Parties to the shipment.

N1*SH*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*PRINCE RUPERT*BC*V0V 1G0*CA
N1*CN*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*PF*OCEAN PAYOR CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*XU*CUSTOMS BROKER
N3*111 FIRST STREET
N4*CHICAGO*IL*12345*US
N1*N1*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*CHICAGO*IL*12345*US
N1*UC*MACHINE SERVICES
N3*745 DILLON DRIVE
N4*WOOD DALE*IL*12345*US
N1*SF*ROHLIG CHINA LIMITED SHANGHAI
N3*ROOM 06-08,26-F,INTERNATIONAL
N4*SHANGHAI*SH*200080*CN

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

N3 Segment: Party Location

Ref.	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 2/19
N402	State or Province Code	156	ID 2/2
N403	Postal Code	116	ID 3/9
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)	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*85**

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 (85 = Ramp to Ramp Impex)	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*NAILS*4611110*T*J*731700**

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
L508	Commodity Code Qualifier (J = Harmonized system code)	23	ID 1/1
L509	Commodity Code	22	AN 1/30

L0 Segment: Line Item - Quantity and Weight

L0*1*19821*N***1632*PCS**K**

Ref. Des.	Name	Data Element	Attributes
L001	Lading Line Item Number	213	N0 1/6
L004	Weight	81	R 1/8
L005	Weight Qualifier (N = Actual Net Weight)	187	ID 1/2
L008	Lading Quantity	80	N0 15
L009	Packaging Form Code (PCS = Pieces)	211	ID 3/3
L011	Weight Unit Code (K = Kilograms)	188	ID 1/1

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

Transport Canada regulations require the Canadian consignor to be identified for shipments originating in Canada (export) or being imported to Canada.

This level of detail can be accomplished with the inclusion, in the case of an export, the “shipped from” (N1*SF) party including the civic address. If the province/state is not known, use ‘ZZ’.

For shipments being imported to Canada, the identification of the “ultimate consignee” (N1*UC) including civic address detail is required.

The Canadian consignor information can be reflected within the Loop ID LH1/N1.

**Canadian National Railway - Electronic Commerce
Hazardous Ocean Shipper 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 for Ocean import traffic that contains a full load of one type of Hazardous Materials / Dangerous Goods.

ISA*00* *00* *ZZ*GENERIC *02*CN *250116*1454*U*00805*000054913*0*P**
GS*SR*GENERIC*CN*20250116*1454*00001*X*008050
ST*404*00001
BX*00*X*PP**CN*K*B
BNX*M**S
M3*R*20250116*1454
N9*BM*495033230**20250116*1454
N9*OB*9165A699C605495033230*20
N9*CMH*CARRIER
N9*HS*870899
CM*UK342A*D*****ANTHEA Y
N7*ABCU*620411*20000*N*****CN****4000***9
M7*555555
F9**ROBERTS BANK*BC
D9**MONTREAL TASCH YARD*PQ
N1*SH*OCEAN SHIPPER INC
N3*123 OCEAN SHIPPER DRIVE
N4*VANCOUVER*BC*V2V 1B6*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*OCEAN CONSIGNEE CO
N3*123 OCEAN SHIPPER DRIVE
N4*MONTREAL*PQ*H1H 2H6*CA
N1*PF*OCEAN SHIPPER INC
N3*123 OCEAN SHIPPER DRIVE
N4*VANCOUVER*BC*V2V 1B6*CA
N1*UC*CHEMICALS INC
N3*745 DILLON DRIVE
N4*MONTREAL*PQ*H3C3X6*CA
N1*SF*ORIENT CONTAINER CO
N3*ROOM 06-08,26-F,INTERNATIONAL
N4*SHANGHAI*SH*200080*CN
R2*CN*S***85
LX*1
L5*1*HAZARDOUS MATERIAL*4917171*T
L0*1***20000*N***100*DRM
LS*LH1
LH1*DR*100*UN2556**4917171*KG*20000***II
LH2*4.1*P
LH3*NITROCELLULOSE WITH ALCOH*C
LH3*OL*C
PER*HM*offeror name or contract number*TE*1-613-996-6666
N1*CN*CHEMICALS INC
N3*745 DILLON DRIVE
N4*MONTREAL*PQ*H3C3X6*CA
LE*LH1
LH6*JOHN Q SHIPPER
SE*49*00001
GE*1*00001
IEA*1*000054913

Sample of Rail Manifest generation:

CN EDI CARGO CONTROL DOCUMENT 17:07:08ET

ACQUITTAL NUMBER : N/A

RAILWAY CARRIER CODE : CN RAILWAYS (6103)

ETA : N/A

CARGO CONTROL NUMBER : **9165A699C605495033230**

PREVIOUS CARGO CONTROL NUMBER : N/A

WAYBILL NUMBER : 812208

WAYBILL DATE : 2025-01-21

RAIL UNIT INITIALS & NUMBER : N/A

CONTAINER/TRAILER INITIALS & NUMBER : ABCU 620411

U.S. PORT OF EXIT : N/A

LOADED OR EMPTY : L

LOCAL OR THROUGH : L

MANIFEST FROM : N/A

MANIFEST TO : N/A

LOCATION OF THE GOODS : N/A

ORIGINATING STATION NAME : ROBERTS BANK BC

DESTINATION STATION NAME : N/A

COUNTRY OF ORIGIN OF THE GOODS : N/A

COUNTRY OF DESTINATION : CANADA

SHIPPER'S NAME AND ADDRESS : OCEAN SHIPPER INC

(SF) ORIENT CONTAINER CO

ROOM 06-08,26-F,INTERNATIONAL
SHANGHAI SH

CONSIGNEE NAME AND ADDRESS : OCEAN CONSIGNEE CO

(UC) CHEMICALS INC

745 DILLON DR
MONTREAL PQ

NOTIFYING PARTY : N/A

NUMBER OF PACKAGES/PIECES : **100 DRM**

WEIGHT/UNITS : **20000 KGS**

DESCRIPTION/HS CODE : 870899

EX MV ANTHEA Y VOY UK342A

NITROCELLULOSE WITH ALCOHOL

HAZARDOUS MATERIAL

SHIPPER'S LOAD AND COUNT : YES

SEAL NUMBER : 555555

HAZARDOUS GOODS INDICATOR : UN2556

BX Segment: General Shipment Information

BX*00*X*PPCN*K*B**

Ref.	Name	Data Element	Attributes
------	------	--------------	------------

BX01	Transaction Set Purpose Code	353	ID 2/2
------	------------------------------	-----	--------

	(00 = Original)			
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 (K= Kilograms)	188	ID	1/1
BX07	Shipment Qualifier (B = Bill of Lading for Individual Shipment)	147	ID	1/1

BNX Segment: Rail Shipment Information

BNX*MS**

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (M = manifested 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*20250116*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*49503323020250116*1454**
N9*OB*9165A699C605495033230*20
N9*CMH*CARRIER

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM = Bill of Lading number) (PO = Purchase order number) (CMH = Carrier//Merchant Intermodal International Haulage Identification)	128	ID	2/3
N902	Reference Number (Max 15 characters for B/L # (BM)) (For N9*CMH, the N902 must be CARRIER or MERCHANT)	127	AN	1/80
N903	Shipment Piece Count (For N9*OB only)	369	AN	1/45
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

CM Segment: Cargo Manifest

CM*UK342A*D***ANTHEA Y**

Ref. Des.	Name	Data Element	Attributes	
CM01	Flight/Voyage Number	55	AN	2/30
CM02	Port Function Code (D = Port of Discharge)	115	ID	1/1
CM09	Vessel Name	182	AN	2/28

N7 Segment: Equipment Details

N7*ABCU*620411*2000*N***CN****4000***9**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial	206	AN	2/4

Mandatory for rail transactions				
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 (CN = Container -not otherwise specified)	40	ID	2/2
N715	Equipment Length (4000 = 40 feet)	567	N0	4/5
Outside length required for intermodal equipment				
N718	Equipment Number Check Digit	761	NO	1/1

M7 Segment: Seal Number

M7*555555

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 Intermodal terminal listing can be found at end of this document.

F9 ROBERTS BANK*BC**

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 Intermodal terminal listing can be found at end of this document.

D9 MONTREAL TASCH YARD*PQ**

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 required for the Consignee and any other Additional Parties to the shipment.

**N1*SH*OCEAN SHIPPER INC
N3*123 OCEAN SHIPPER DRIVE
N4*VANCOUVER*BC*V2V 1B6*CA
N1*CN*OCEAN CONSIGNEE CO
N3*123 OCEAN SHIPPER DRIVE
N4*MONTREAL*PQ*H1H 2H6*CA
N1*PF*OCEAN SHIPPER INC
N3*123 OCEAN SHIPPER DRIVE
N4*VANCOUVER*BC*V2V 1B6*CA
N1*UC*CHEMICALS INC
N3*745 DILLON DRIVE
N4*MONTREAL*PQ*H3C3X6*CA
N1*SF*ORIENT CONTAINER CO
N3*ROOM 06-08,26-F,INTERNATIONAL
N4*SHANGHAI*SH*200080*CN**

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (PF = Payor of Freight) (UC = Ultimate Consignee) (SF = Shipped From)	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*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)	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*85**

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 (85 = Ramp to Ramp Impex)	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*HAZARDOUS MATERIAL*4917171*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*20000*N***100*DRM**

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

L004	Weight	81	R	1/8
L005	Weight Qualifier (N = Actual Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/5
L009	Packaging Form Code (DRM=Drum)	211	ID	3/3

LS Segment: Loop Header

LS*LH1

Ref. Des.	Name	Data Element	Attributes	
LS01	Loop Identifier Code (Code identifying a loop within the transaction set which is bounded by the related LS and LE segments)	447	AN	1/6

LH1 Segment: Hazardous Identification Information

LH1*DR*100*UN25564917171*KG*20000***II**

Ref. Des.	Name	Data Element	Attributes	
LH101	Unit or Basis for Measurement Code (DR= Drum)	355	ID	2/2
LH102	Lading Quantity	80	N0	1/5
LH103	UN/NA Identification Code	277	ID	6/6
LH105	Commodity Code (7-digit Standard Transportation Commodity Code (STCC))	22	AN	1/30
LH106	Unit or Basis for Measurement Code (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*4.1*P

Ref. Des.	Name	Data Element	Attributes	
LH201	Hazardous Classification	215	ID	1/30

LH202	Hazardous Class Qualifier (P= Primary)	983	ID	1/1
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LH3 Segment: Hazardous Material Shipping Name Information

**LH3*NITROCELLULOSE WITH ALCOH*C
LH3*OL*C**

Ref. Des.	Name	Data Element	Attributes	
LH301	Hazardous Material Shipping Name	224	AN	1/25
LH302	Hazardous Material Shipping Name Qual. (C = Canadian Shipping Name)	984	ID	1/1

PER Segment: Administrative Communications Contact

PER*HM*offeror name or contract number*TE*1-613-996-6666

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

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*CN*CHEMICALS INC
N3*745 DILLON DRIVE**

N4*MONTREAL*PQ*H3C3X6*CA

Ref. Des.	Name	Data Element	Attributes
N101	Entity Identifier Code (CN = Consignee)	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 2/19
N402	State or Province Code	156	ID 2/2
N403	Postal Code	116	ID 3/9
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).

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 1/60

**Canadian National Railway - Electronic Commerce
Hazardous Ocean Shipper 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 for Ocean import traffic that includes multiple Hazardous Materials / Dangerous Goods (mixed load).

ISA*00* *00* *ZZ*GENERIC *02*CN *250116*1454*U*00805*000054913*0*P*^
GS*SR*GENERIC*CN*20250116*1454*00001*X*008050
ST*404*00001
BX*00*X*PP**CN*K*B
BNX*M**S
M3*R*20250116*1454
N9*BM*495033230**20250116*1454
N9*OB*9165A699C605495033230*20
N9*CMH*CARRIER
N9*HS*870899
CM*UK342A*D*****ANTHEA Y
N7*ABCU*620411*20000*N*****CN****4000***9
M7*555555
F9**ROBERTS BANK*BC
D9**MONTREAL TASCH YARD*PQ
N1*SH*OCEAN SHIPPER INC
N3*123 OCEAN SHIPPER DRIVE
N4*VANCOUVER*BC*V2V 1B6*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*OCEAN CONSIGNEE CO
N3*123 OCEAN SHIPPER DRIVE
N4*MONTREAL*PQ*H1H 2H6*CA
N1*PF*OCEAN SHIPPER INC
N3*123 OCEAN SHIPPER DRIVE
N4*VANCOUVER*BC*V2V 1B6*CA
N1*UC*CHEMICALS INC
N3*745 DILLON DRIVE
N4*MONTREAL*PQ*H3C3X6*CA
N1*SF*ORIENT CONTAINER CO
N3*ROOM 06-08,26-F,INTERNATIONAL
N4*SHANGHAI*SH*200080*CN
R2*CN*S***85
LX*1
L5*1*MIXED HAZARDOUS*4950110*T
L0*1***20000*N***435*PCS
LS*LH1
LH1*BX*100*UN1814**4935230*KG*10000***II
LH2*8*P
LH3*POTASSIUM HYDROXIDE SOLUT*C
LH3*ION*C
PER*HM*offeror name or contract number*TE*1-613-996-6666
LH1*BX*325*UN2556**4917171*KG*10000***II
LH2*4.1*P
LH3*NITROCELLULOSE WITH ALCOH*C
LH3*OL*C
PER*HM*offeror name or contract number*TE*1-613-996-6666
N1*CN*CHEMICALS INC
N3*745 DILLON DRIVE
N4*MONTREAL*PQ*H3C3X6*CA
LE*LH1
LH6*JOHN Q SHIPPER
SE*54*00001
GE*1*00001
IEA*1*000054913

Sample of Rail Manifest generation:

CN EDI CARGO CONTROL DOCUMENT 17:07:08ET

ACQUITTAL NUMBER : N/A

RAILWAY CARRIER CODE : CN RAILWAYS (6103)

ETA : N/A

CARGO CONTROL NUMBER : **9165A699C605495033230**

PREVIOUS CARGO CONTROL NUMBER : N/A

WAYBILL NUMBER : 812211
 WAYBILL DATE : 2025-01-21
 RAIL UNIT INITIALS & NUMBER : N/A
 CONTAINER/TRAILER INITIALS & NUMBER : ABCU 620411
 U.S. PORT OF EXIT : N/A
 LOADED OR EMPTY : L
 LOCAL OR THROUGH : L
 MANIFEST FROM : N/A
 MANIFEST TO : N/A
 LOCATION OF THE GOODS : N/A
 ORIGINATING STATION NAME : ROBERTS BANK BC
 DESTINATION STATION NAME : N/A
 COUNTRY OF ORIGIN OF THE GOODS : N/A
 COUNTRY OF DESTINATION : CANADA
 SHIPPER'S NAME AND ADDRESS : OCEAN SHIPPER INC
 (SF) ORIENT CONTAINER CO
 ROOM 06-08,26-F,INTERNATIONAL
 SHANGHAI SH

CONSIGNEE NAME AND ADDRESS : OCEAN CONSIGNEE CO
 (UC) CHEMICALS INC
 745 DILLON DR
 MONTREAL PQ

NOTIFYING PARTY : N/A

NUMBER OF PACKAGES/PIECES : **435 BOX**
 WEIGHT/UNITS : **20000 KGS**
 DESCRIPTION/HS CODE : 870899

EX MV ANTHEA Y VOY UK342A
 POTASSIUM HYDROXIDE, SOLUTION

SHIPPER'S LOAD AND COUNT : YES
 SEAL NUMBER : 555555
 HAZARDOUS GOODS INDICATOR : UN1814

BX Segment: General Shipment Information

BX*00*X*PPCN*K*B**

Ref.	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	188	ID 1/1

(K= Kilograms)
 BX07 Shipment Qualifier 147 ID 1/1
 (B = Bill of Lading for Individual Shipment)

BNX Segment: Rail Shipment Information

BNX*MS**

Ref. Des.	Name	Data Element	Attributes
BNX01	Shipment Weight Code (M = manifested 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*20250116*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*49503323020250116*1454
 N9*OB*9165A699C605495033230*20
 N9*CMH*CARRIER**

Ref. Des.	Name	Data Element	Attributes
N901	Reference Number Qualifier (BM = Bill of Lading number) (PO = Purchase order number)	128	ID 2/3

(CMH = Carrier//Merchant Intermodal International Haulage Identification)

N902	Reference Number (Max 15 characters for B/L # (BM)) (For N9*CMH, the N902 must be CARRIER or MERCHANT)	127	AN	1/80
N903	Shipment Piece Count (For N9*OB only)	369	AN	1/45
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

CM Segment: Cargo Manifest

CM*UK342A*D***ANTHEA Y**

Ref. Des.	Name	Data Element	Attributes	
CM01	Flight/Voyage Number	55	AN	2/30
CM02	Port Function Code (D = Port of Discharge)	115	ID	1/1
CM09	Vessel Name	182	AN	2/28

N7 Segment: Equipment Details

N7*ABCU*620411*20000*N***CN****4000***9**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	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 (CN = Container -not otherwise specified)	40	ID	2/2
N715	Equipment Length	567	N0	4/5

(4000 = 40 feet)

Outside length required for intermodal equipment

N718 Equipment Number Check Digit 761 NO 1/1

M7 Segment: Seal Number

M7*555555

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 Intermodal terminal listing can be found at end of this document.

F9 ROBERTS BANK*BC**

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 Intermodal terminal listing can be found at end of this document.

D9 MONTREAL TASCH YARD*PQ**

Ref. Des.	Name	Data Element	Attributes
D902	Destination Station	19	AN 2/19

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*OCEAN SHIPPER INC
N3*123 OCEAN SHIPPER DRIVE
N4*VANCOUVER*BC*V2V 1B6*CA
N1*CN*OCEAN CONSIGNEE CO
N3*123 OCEAN SHIPPER DRIVE
N4*MONTREAL*PQ*H1H 2H6*CA
N1*PF*OCEAN SHIPPER INC
N3*123 OCEAN SHIPPER DRIVE
N4*VANCOUVER*BC*V2V 1B6*CA
N1*UC*CHEMICALS INC
N3*745 DILLON DRIVE
N4*MONTREAL*PQ*H3C3X6*CA
N1*SF*ORIENT CONTAINER CO
N3*ROOM 06-08,26-F,INTERNATIONAL
N4*SHANGHAI*SH*200080*CN

Ref. Des.	Name	Data Element	Attributes
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (PF = Payor of Freight) (UC = Ultimate Consignee) (SF = Shipped From)	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*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)	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*85**

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 (85 = Ramp to Ramp Impex)	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*MIXED HAZARDOUS*4950110*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*20000*N***435*PCS**

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

LS Segment: Loop Header

LS*LH1

Ref. Des.	Name	Data Element	Attributes	
LS01	Loop Identifier Code (Code identifying a loop within the transaction set which is bounded by the related LS and LE segments)	447	AN	1/6

LH1 Segment: Hazardous Identification Information

LH1*BX*100*UN18144935230*KG*10000***II**

LH1*BX*325*UN25564917171*KG*10000***II**

Ref. Des.	Name	Data Element	Attributes	
LH101	Unit or Basis for Measurement Code (PK = package)	355	ID	2/2
LH102	Lading Quantity	80	N0	1/5
LH103	UN/NA Identification Code	277	ID	6/6
LH105	Commodity Code (7-digit Standard Transportation Commodity Code (STCC))	22	AN	1/30
LH106	Unit or Basis for Measurement Code (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*8*P

LH2*4.1*P

Ref. Des.	Name	Data Element	Attributes	
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*POTASSIUM HYDROXIDE SOLUT*C
LH3*ION*C
LH3*NITROCELLULOSE WITH ALCOH*C
LH3*OL*C**

Ref. Des.	Name	Data Element	Attributes	
LH301	Hazardous Material Shipping Name	224	AN	1/25
LH302	Hazardous Material Shipping Name Qual. (C = Canadian Shipping Name)	984	ID	1/1

PER Segment: Administrative Communications Contact

PER*HM*offeror name or contract number*TE*1-613-996-6666

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

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*CN*CHEMICALS INC
N3*745 DILLON DRIVE
N4*MONTREAL*PQ*H3C3X6*CA**

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code	98	ID	2/3

(CN = Consignee)
 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	2/19
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/9
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).

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	1/60

Canadian National Railway - Electronic Commerce Hazardous Ocean Shipper 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 for Ocean import traffic that includes Hazardous Materials / Dangerous Goods and non-hazardous goods (mixed load).

**ISA*00* *00* *ZZ*GENERIC *02*CN *250116*1454*U*00805*000054913*0*P^
GS*SR*GENERIC*CN*20250116*1454*00001*X*008050
ST*404*00001
BX*00*X*PP**CN*K*B
BNX*M**S
M3*R*20250116*1454
N9*BM*495033230**20250116*1454
N9*OB*9165A699C605495033230*20**

N9*CMH*CARRIER
 N9*HS*870899
 CM*UK342A*D*****ANTHEA Y
 N7*ABCU*620411*20080*N*****CN****4000***9
 M7*555555
 F9**ROBERTS BANK*BC
 D9**MONTREAL TASCH YARD*PQ
 N1*SH*OCEAN SHIPPER INC
 N3*123 OCEAN SHIPPER DRIVE
 N4*VANCOUVER*BC*V2V 1B6*CA
 PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
 N1*CN*OCEAN CONSIGNEE CO
 N3*123 OCEAN SHIPPER DRIVE
 N4*MONTREAL*PQ*H1H 2H6*CA
 N1*PF*OCEAN SHIPPER INC
 N3*123 OCEAN SHIPPER DRIVE
 N4*VANCOUVER*BC*V2V 1B6*CA
 N1*UC*CHEMICALS INC
 N3*745 DILLON DRIVE
 N4*MONTREAL*PQ*H3C3X6*CA
 N1*SF*ORIENT CONTAINER CO
 N3*ROOM 06-08,26-F,INTERNATIONAL
 N4*SHANGHAI*SH*200080*CN
 R2*CN*S***85
 LX*1
 L5*1*NEW AUTO PARTS*4611110*T
 L0*1***1500*N***3*CRT
 LS*LH1
 LH1*PK*20*UN2465**4918724*KG*18580***II
 LH2*5.1*P
 LH3*DICHLOROISOCYANURIC ACID*C
 LH3*SALTS*C
 PER*HM*offeror name or contract number*TE*1-613-996-6666
 N1*CN*CHEMICALS INC
 N3*745 DILLON DRIVE
 N4*MONTREAL*PQ*H3C3X6*CA
 LE*LH1
 LH6*JOHN Q SHIPPER
 SE*49*00001
 GE*1*00001
 IEA*1*000054913

Sample of Rail Manifest generation:

CN EDI CARGO CONTROL DOCUMENT 17:07:08ET

ACQUITTAL NUMBER : N/A
 RAILWAY CARRIER CODE : CN RAILWAYS (6103)
 ETA : N/A
 CARGO CONTROL NUMBER : 9165A699C605495033230
 PREVIOUS CARGO CONTROL NUMBER : N/A
 WAYBILL NUMBER : 812212
 WAYBILL DATE : 2025-01-21
 RAIL UNIT INITIALS & NUMBER : N/A
 CONTAINER/TRAILER INITIALS & NUMBER : ABCU 620411
 U.S. PORT OF EXIT : N/A
 LOADED OR EMPTY : L
 LOCAL OR THROUGH : L
 MANIFEST FROM : N/A

MANIFEST TO : N/A
 LOCATION OF THE GOODS : N/A
 ORIGINATING STATION NAME : ROBERTS BANK BC
 DESTINATION STATION NAME : N/A
 COUNTRY OF ORIGIN OF THE GOODS : N/A
 COUNTRY OF DESTINATION : CANADA
 SHIPPER'S NAME AND ADDRESS : OCEAN SHIPPER INC
 (SF) ORIENT CONTAINER CO
 ROOM 06-08,26-F,INTERNATIONAL
 SHANGHAI SH

CONSIGNEE NAME AND ADDRESS : OCEAN CONSIGNEE CO
 (UC) CHEMICALS INC
 745 DILLON DR
 MONTREAL PQ

NOTIFYING PARTY : N/A

NUMBER OF PACKAGES/PIECES : **23 PCS**
 WEIGHT/UNITS : **20080 KGS**
 DESCRIPTION/HS CODE : 870899

EX MV ANTHEA Y VOY UK342A
 DICHLOROISOCYANURIC ACID SALTS
 NEW AUTO PARTS

SHIPPER'S LOAD AND COUNT : YES
 SEAL NUMBER : 555555
 HAZARDOUS GOODS INDICATOR : UN2465

BX Segment: General Shipment Information

BX*00*X*PPCN*K*B**

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

BNX Segment: Rail Shipment Information

BNX*MS**

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (M = manifested 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*20250116*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*49503323020250116*1454**
N9*OB*9165A699C605495033230*20
N9*CMH*CARRIER

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM = Bill of Lading number) (PO = Purchase order number) (CMH = Carrier//Merchant Intermodal International Haulage Identification)	128	ID	2/3
N902	Reference Number (Max 15 characters for B/L # (BM)) (For N9*CMH, the N902 must be CARRIER or MERCHANT)	127	AN	1/80
N903	Shipment Piece Count	369	AN	1/45

	(For N9*OB only)			
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

CM Segment: Cargo Manifest

CM*UK342A*D***ANTHEA Y**

Ref. Des.	Name	Data Element	Attributes	
CM01	Flight/Voyage Number	55	AN	2/30
CM02	Port Function Code (D = Port of Discharge)	115	ID	1/1
CM09	Vessel Name	182	AN	2/28

N7 Segment: Equipment Details

N7*ABCU*620411*20080*N***CN****4000***9**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	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 (CN = Container -not otherwise specified}	40	ID	2/2
N715	Equipment Length (4000 = 40 feet) Outside length required for intermodal equipment	567	N0	4/5
N718	Equipment Number Check Digit	761	NO	1/1

M7 Segment: Seal Number

M7*555555

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 Intermodal terminal listing can be found at end of this document.

F9 ROBERTS BANK*BC**

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 Intermodal terminal listing can be found at end of this document.

D9 MONTREAL TASCH YARD*PQ**

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 required for the Consignee and any other Additional Parties to the shipment.

**N1*SH*OCEAN SHIPPER INC
 N3*123 OCEAN SHIPPER DRIVE
 N4*VANCOUVER*BC*V2V 1B6*CA
 N1*CN*OCEAN CONSIGNEE CO
 N3*123 OCEAN SHIPPER DRIVE
 N4*MONTREAL*PQ*H1H 2H6*CA
 N1*PF*OCEAN SHIPPER INC
 N3*123 OCEAN SHIPPER DRIVE
 N4*VANCOUVER*BC*V2V 1B6*CA**

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (PF = Payor of Freight)	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*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)	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*85**

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 (85 = Ramp to Ramp Impex)	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*NEW AUTO PARTS*4611110*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*1500*N***3*CRT**

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

LS Segment: Loop Header

LS*LH1

Ref. Des.	Name	Data Element	Attributes	
LS01	Loop Identifier Code (Code identifying a loop within the transaction set which is bounded by the related LS and LE segments)	447	AN	1/6

LH1 Segment: Hazardous Identification Information

LH1*PK*20*UN24654918724*KG*18580***II**

Ref. Des.	Name	Data Element	Attributes	
LH101	Unit or Basis for Measurement Code (PK = package)	355	ID	2/2

LH102	Lading Quantity	80	N0	1/5
LH103	UN/NA Identification Code	277	ID	6/6
LH105	Commodity Code (7-digit Standard Transportation Commodity Code (STCC))	22	AN	1/30
LH106	Unit or Basis for Measurement Code (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	
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*DICHLOROISOCYANURIC ACID*C
LH3*SALTS*C**

Ref. Des.	Name	Data Element	Attributes	
LH301	Hazardous Material Shipping Name	224	AN	1/25
LH302	Hazardous Material Shipping Name Qual. (C = Canadian Shipping Name)	984	ID	1/1

PER Segment: Administrative Communications Contact

PER*HM*offeror name or contract number*TE*1-613-996-6666

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

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*CN*CHEMICALS INC
N3*745 DILLON DRIVE
N4*MONTREAL*PQ*H3C3X6*CA**

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (CN = Consignee)	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	2/19
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/9
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).

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 1/60

Canadian National Railway - Electronic Commerce Ocean Shipper 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 for Ocean export from a Canadian origin to a US Ocean Port.

As of October 2019, the US port of exit code (N9*BD), US FIRMS code (N9*FRC), Harmonized System code (N9*HS) and the Canadian Export Declaration (N9*ED) are required.

EDI 404 with mandatory transborder data highlighted in bold red.

```
ISA*00*      *00*      *ZZ*GENERIC      *02*CN      *250116*1454*U*00805*000054913*0*P*^
GS*SR*GENERIC*CN*20250116*1454*00001*X*008050
ST*404*00001
BX*00*X*PP**CN*K*B****30*N*1
BNX*M**S
M3*R*20250116*1454
N9*BM*611451684**20250116
N9*BN*70868136**20250116
N9*BD*1901
N9*FRC*H903
```

N9*HS*731700
N9*ED*CERS1234567891247888
N9*CMH*CARRIER
CM*010E*L***YM TOGETHER**
N7*ABCU*222111*19821*N***CN****2000***8**
M7*555555
REF*OB*9529SHA2309HDMQ8
N10*1632*NAILS**K*19821**PCS*US**
F9MONTREAL TASCH YARD*PQ**
D9MOBILE*AL**
N1*SH*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*MONTREAL*PQ*H1H 2H1*CA
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*MOBILE*AL*12345*US
N1*PF*OCEAN PAYOR CO
N3*555 DAY STREET
N4*MOBILE*AL*12345*US
N1*XU*CUSTOMS BROKER
N3*111 FIRST STREET
N4*PORT HURON*MI*12345*US
N1*N1*OCEAN CONSIGNEE CO
PER*NT*OCEAN CONSIGNEE CO*FX*5555551234
R2*CN*S*85**
LX*1
L5*1*NAILS*4611110*T*J*731700**
L0*1*19821*N***1632*PCS**K**
SE*42*00001
GE*1*00001
IEA*1*000054913

BX Segment: General Shipment Information

BX*00*X*PPCN*K*B****30*N*1**

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 (K= Kilograms)	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 Port of Exit/B13 Not Required)	501	ID 2/2

BX12	Confidential Billing Request Code (N = Not Applicable)	199	ID	1/1
BX13	Tax reason Code (1 = inbound GST Declaration)	714	ID	1/1

BNX Segment: Rail Shipment Information

BNX*MS**

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (M =Manifest 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*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 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*61145168420250116**

N9*BN*7086813620250116**

N9*BD*1901

N9*FRC*H903

N9*HS*731700

N9*ED*CERS1234567891247888

N9*CMH*CARRIER

Ref. Des.	Name	Data Element	Attributes
N901	Reference Number Qualifier (BM = Bill of Lading Number) (BN = Booking Number) (BD = US Port of Exit Code) (FRC=FIRMS code) (HS=harmonized system code)	128	ID 2/2

(ED = Canadian Export Declaration code)

(CMH = Carrier//Merchant Intermodal International Haulage Identification)

N902	Reference Number (Max 15 characters for B/L # (BM)) (For N9*CMH, the N902 must be CARRIER or MERCHANT)	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

CM Segment: Cargo Manifest

CM*010E*L***YM TOGETHER**

Ref. Des.	Name	Data Element	Attributes	
CM01	Flight/Voyage Number	55	AN	2/30
CM02	Port Function Code (L= Port of Loading)	115	ID	1/1
CM09	Vessel Name	182	AN	2/28

N7 Segment: Equipment Details

N7*ABCU*222111*19821*N***CN****2000***8**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	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 (CN = Container)	40	ID	2/2
N715	Equipment Length (4000 = 40 feet) Outside length required for intermodal equipment	567	N0	4/5
N718	Equipment Number Check Digit	761	NO	1/1

M7 Segment: Seal Numbers

M7*555555

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

REF Segment: Reference Information

REF*OB*9529SHA2309HDMQ8

Ref. Des.	Name	Data Element	Attributes	
REF01	Reference Number Qualifier (OB =Ocean Bill of Lading) **If REF*OB is used, an N10 loop is required.	128	ID	2/3
REF02	Reference Number	127	AN	1/80

N10 Segment: Quantity and Description

N10*1632*NAILS***K*19821**PCS*US**

Ref. Des.	Name	Data Element	Attributes	
N1001	Quantity	380	R	1/15
N1002	Free-form description	369	AN	1/45
N1007	Weight Unit Code (K = kilograms)	188	ID	1/1
N1008	Weight	81	R	1/10
N1010	Manifest Unit Code (Code defining the package unit)	599	ID	1/3
N1011	Country Code <i>**For North American countries, use the ISO-3166 Alpha-2 character code.</i>	26	ID	2/3

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	2/19
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 terminal listing can be found at end of this document.

D9MOBILE*AL**

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 required for the Consignee and any other Additional Parties to the shipment.

**N1*SH*OCEAN SHIPPER INC
 N3*123 MAIN ST
 N4*MONTREAL*PQ*H1H 2H1*CA
 N1*CN*OCEAN CONSIGNEE CO
 N3*555 DAY STREET
 N4*MOBILE*AL*12345*US
 N1*PF*OCEAN PAYOR CO
 N3*555 DAY STREET
 N4*MOBILE*AL*12345*US
 N1*XU*CUSTOMS BROKER
 N3*111 FIRST STREET
 N4*PORT HURON*MI*12345*US
 N1*N1*OCEAN CONSIGNEE CO**

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (SH = Shipper)	98	ID	2/2

(CN = Consignee)
(PF = payer of freight)
(N1 = Notify Party)
(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 2/19
N402	State or Province Code	156	ID 2/2
N403	Postal Code	116	ID 3/9
N404	Country Code	26	ID 2/3

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

PER Segment: Administrative Communications Contact

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

**PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
PER*NT*OCEAN CONSIGNEE CO*FX*5555551234**

Ref. Des.	Name	Data Element	Attributes
PER01	Contact function code (IC=information contact) (NT = notification 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*85**

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 (85 = Ramp to Ramp Impex)	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*NAILS*4611110*T*J*731700**

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
L508	Commodity Code Qualifier (J = Harmonized system code)	23	ID	1/1
L509	Commodity Code	22	AN	1/30

L0 Segment: Line Item - Quantity and Weight

L0*1*19821*N***1632*PCS**K**

Ref. Des.	Name	Data Element	Attributes	
L001	Lading Line Item Number	213	N0	1/6
L004	Weight	81	R	1/8
L005	Weight Qualifier (N = Actual Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/5
L009	Packaging Form Code (PCS = Pieces)	211	ID	3/3
L011	Weight Unit Code (K = Kilograms)	188	ID	1/1

**Canadian National Railway - Electronic Commerce
Ocean Shipper 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 for Ocean export from a US origin to a Canadian Ocean Port.

An ITN (Internal Transaction Number) is required to confirm your Electronic Export Information has been accepted in the Automated Export System (AES). In order to clear customs at the port of export, the ITN must appear on the Bill of Lading.

EDI 404 with mandatory transborder data highlighted in bold red.

ISA*00* *00* *ZZ*GENERIC *02*CN *250116*1454*U*00805*000054913*0*P*^
GS*SR*GENERIC*CN*20250116*1454*00001*X*008050
ST*404*00001
BX*00*X*PP**CN*L*B
BNX*M**S
M3*R*20250116*1454
N9*BM*611451684**20250116
N9*BN*70868136**20250116

N9*ITN*X20250116123456
N9*HS*731700
CM*010E*L***YM TOGETHER**
N7*ABCU*222111*19821*N***CN****2000***8**
M7*555555
F9CHICAGO*IL**
D9FAIRVIEW COVE IMPEX*NS**
N1*SH*OCEAN SHIPPER INC
N3*123 MAIN ST
N4*CHICAGO*IL*12345*US
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
N1*CN*OCEAN CONSIGNEE CO
N3*555 DAY STREET
N4*FAIRVIEW COVE IMPEX*NS*B3B 3B3*CA
PER*NT*OCEAN CONSIGNEE CO*FX*5555551234
N1*PF*OCEAN PAYOR CO
N3*555 DAY STREET
N4*FAIRVIEW COVE IMPEX*NS*B3B 3B3*CA
N1*XQ*CANADIAN BROKER CO
N3*12 NORTH ST
N4*HALIFAX*NS*B3H 4N4*CA
R2*CN*S*85**
LX*1
L5*1*NAILS*4611110*T*J*731700**
L0*1*19821*N***1632*PCS*L**
SE*37*00001
GE*1*00001
IEA*1*000054913

BX Segment: General Shipment Information

BX*00*X*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 (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

BNX Segment: Rail Shipment Information

BNX*MS**

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (M =Manifest 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*20250116*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*61145168420250116**
N9*BN*7086813620250116**
N9*ITN*X20250116123456
N9*HS*731700

Ref. Des.	Name	Data Element	Attributes
N901	Reference Number Qualifier (BM = Bill of Lading Number) (BN = Booking Number) (ITN=Census Internal Transaction Number) (HS=harmonized system code)	128	ID 2/2
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

CM Segment: Cargo Manifest

CM*010E*L***YM TOGETHER**

Ref. Des.	Name	Data Element	Attributes
CM01	Flight/Voyage Number	55	AN 2/30
CM02	Port Function Code (L = Port of Loading)	115	ID 1/1
CM09	Vessel Name	182	AN 2/28

N7 Segment: Equipment Details

N7*ABCU*222111*19821*N***CN****2000***8**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial Mandatory for rail transactions	206	AN	2/4
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
N718	Equipment Number Check Digit	761	NO	1/1

M7 Segment: Seal Numbers

M7*555555

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) 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.

F9CHICAGO*IL**

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 terminal listing can be found at end of this document.

D9FAIRVIEW COVE IMPEX*NS**

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 required for the Consignee and any other Additional Parties to the shipment.

**N1*SH*OCEAN SHIPPER INC
 N3*123 MAIN ST
 N4*CHICAGO*IL*12345*US
 N1*CN*OCEAN CONSIGNEE CO
 N3*555 DAY STREET
 N4*FAIRVIEW COVE IMPEX*NS*B3B 3B3*CA
 N1*PF*OCEAN PAYOR CO
 N3*555 DAY STREET
 N4*FAIRVIEW COVE IMPEX*NS*B3B 3B3*CA
 N1*XQ*CANADIAN BROKER CO
 N3*12 NORTH ST
 N4*HALIFAX*NS*B3H 4N4*CA**

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code	98	ID	2/2

(SH = Shipper)
 (CN = Consignee)
 (PF = payer of freight)
 (XQ = Canadian 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 2/19
N402	State or Province Code	156	ID 2/2
N403	Postal Code	116	ID 3/9
N404	Country Code	26	ID 2/3

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

PER Segment: Administrative Communications Contact

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

**PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHN.DOE@INTSHIP.COM
 PER*NT*OCEAN CONSIGNEE CO*FX*5555551234**

Ref. Des.	Name	Data Element	Attributes
PER01	Contact function code (IC=information contact) (NT = notification 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*85**

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 (85 = Ramp to Ramp Impex)	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*NAILS*4611110*T*J*731700**

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
L508	Commodity Code Qualifier (J = Harmonized system code)	23	ID	1/1

L0 Segment: Line Item - Quantity and Weight**L0*1***19821*N***1632*PCS**L**

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

<u>D/K</u>	<u>SPLC</u>	<u>Station Abbr. 333</u>	<u>St/Pr</u>	<u>Full Station Name</u>
	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
42	"	Door to Ramp	
45	"	Ramp to Ramp	

47	“	Ramp to Door	to US/Canada/Mexico traffic. Equipment supplied by stack operation or Steamship Line.
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	