



**Bill of Lading  
404  
EDI Mapping**

***Intermodal Shipper Inc***

**Domestic  
Transborder  
Hazardous Materials**

**EDI Version 006020**

Customer eBusiness

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## **Canadian National Railway - Electronic Commerce**

The enclosed documentation covers information required to handle traffic for domestic and cross border shipments. Also included is the format of traffic that includes Hazardous/dangerous goods.

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

CN is currently using the X12 Standard Version/Release 6040/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set for domestic traffic,  
ramp-to-ramp:

ISA\*00\*        \*00\*        \*ZZ\*GENERIC        \*02\*CN        \*130125\*145  
4\*U\*00602\*000054913\*0\*P\*^  
GS\*SR\*INTERMSHIP\*CN\*20130125\*0728\*0092\*X\*006020  
ST\*404\*00920001  
BX\*00\*X\*PP\*\*CN\*K\*B  
BNX\*N\*\*S  
M3\*R\*20130125\*0728  
N9\*BM\*495033230\*\*20130125\*0728  
N9\*PO\*445927\*\*20130125\*0728  
N7\*CNRU\*220411\*0020000\*A3\*\*\*\*\*CN\*\*\*\*4800  
F9\*\*MONTREAL TASCH YARD\*PQ  
D9\*\*BRAMPTON INTER TER\*ON  
N1\*SH\*INTERMODAL SHIPPER INC  
N3\*123 ROAD  
N4\*MONTREAL\*PQ  
N1\*CN\*INTERMODAL SHIPPER INC  
N3\*12 SMITH STREET  
N4\*TORONTO\*ON  
N1\*N1\*INTERMODAL SHIPPER INC  
R2\*CN\*S\*\*\*25\*X  
H3\*SLC  
LX\*1  
L5\*1\*FAK\*4611110\*T  
L0\*1\*\*\*0020000\*N\*\*\*0000600\*PCS\*\*K  
PI\*CT\*C-05555  
SE\*0023\*00920001  
GE\*1\*0092

**ISA Segment: Interchange Control Header**

**ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*130125\*145  
4\*U\*00602\*000054913\*0\*P^A**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
ISA01	Authorization Information Qualifier	I01	ID	2/2
ISA02	Authorization Information (ten spaces)	I02	AN	10/10
ISA03	Security Information Qualifier	I03	ID	2/2
ISA04	Security Information	I04	AN	10/10
ISA05	Interchange ID Qualifier	I05	ID	2/2
ISA06	Interchange Sender ID (fill out with spaces)	I06	AN	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID	2/2
ISA08	Interchange Receiver ID (RR SCAC- 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 00602)	I11	ID	5/5
ISA13	Interchange Control Number (number assigned by sender)	I12	N0	9/9
ISA14	Acknowledgment Requested (0 = none required, 1= required)	I13	ID	1/1
ISA15	Usage Indicator (P = Production, T = Test)	I14	ID	1/1
ISA16	Component Element Separator	I15		1/1

**GS Segment: Functional Group Header**

**GS\*SR\*INTERMSHIP\*CN\*20130125\*0728\*0092\*X\*006020**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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	455	ID	1/2

(X = Accredited Standards Committee X12)  
 GS08 Version / Release / Industry Identity 480 AN 1/12  
 (CN is using version 006020 of the X12 EDI Standards)

**ST Segment: Transaction Set Header**

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

***ST\*404\*00920001***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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, CC = Collect)	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

**BNX Segment: Rail Shipment Information**

***BNX\*N\*\*S***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
BNX01	Shipment Weight Code (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 through other means.

***M3\*R\*20130125\*0728***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
M301	Release Code (R = Release with Shipment Information)	132	ID	1/1
M302	Release Date (CCYYMMDD)	373	DT	8/8
M303	Release Time (HHMM, 24 hour clock 0001-2359)	337	TM	4/6

**N9 Segment: Reference Number**

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

***N9\*BM\*495033230\*\*20130125\*0728***

***N9\*PO\*445927\*\*20130125\*0728***

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

**N7 Segment: Equipment Details**

***N7\*CNRU\*220411\*0020000\*A3\*\*\*\*\*CN\*\*\*\*4000***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N701	Equipment Initial	206	AN	1/4
N702	Equipment Number	207	AN	1/10
N703	Weight	81	R	1/8
N704	Weight Qualifier (A3 = Shipper's Weight)	187	ID	1/2
N711	Equipment Description Code (CN = Container -not otherwise specified} (TL = Trailer -not otherwise specified)	40	ID	2/2

N715	Equipment Length (4000 = 40 feet 00 inches)	567	NO	4/5
N718	Equipment Number Check Digit	761	NO	1/1
N720	Equipment Height (0102 = 102 inches or 8 ft. 6 in.)	65	R	1/8

**F9 Segment: Origin**

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\*\*MONTREAL TASCH YARD\*PQ***

Data Seq	Element Name	Data Element	Data Type	Characters Min/Max
F902	Origin Station (MONTREAL TASCH YARD = Montreal Taschereau Yard)	101	AN	2/19
F903	State Or Province Code	156	ID	2/2

**D9 Segment: Destination**

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\*\*BRAMPTON INTER TER\*ON***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
D902	Destination Station (BRAMPTON INTER TER = Brampton Intermodal Terminal)	300	AN	2/19
D903	State Or Province Code	156	ID	2/2

**N1 Segment: Name**

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

***N1\*SH\*INTERMODAL SHIPPER INC  
N3\*123 ROAD  
N4\*MONTREAL\*PQ  
N1\*CN\*INTERMODAL SHIPPER INC  
N3\*12 SMITH STREET  
N4\*TORONTO\*ON  
N1\*N1\*INTERMODAL SHIPPER INC***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (C1 = Care of Party) (N1 = Notify Party) (SF = Shipped From)	98	ID	2/2

N102	Name	93	AN	1/27
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**N3 Segment: Address**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N301	Address Information	166	AN	1/30
N302	Address Information	166	AN	1/30

**N4 Segment: City**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N401	City Name	19	AN	2/19
N402	State Or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/9

**R2 Segment: Route Information**

One R2 segment for each railroad in the route. CN can provide route information for your shipments (ie: Railroad SCAC's and junctions).

**R2\*CN\*S\*\*\*25\*X**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
R201	Standard Carrier Alpha Code (SCAC) (CN = Canadian National etc)	140	ID	2/4
R202	Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail))	133	ID	1/2
R205	Intermodal Service Code (25 = Ramp to Ramp; rail owned equipment )	177	ID	1/2
R206	Transportation Method/Type Code (X = Intermodal)	91	ID	1/2

**H3 Segment: Special Handling Instructions**

**H3\*SLC**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
H301	Special Handling Code (SLC = Shipper Load and Count)	140	ID	2/4



**LX Segment: Assigned Number**

***LX\*1***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LX01	Assigned Number (Number assigned for differentiation within a transaction set)	554	N0	1/6

**L5 Segment: Commodity Description.**

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\*FAK\*4611110\*T***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L501	Line Number	213	N0	1/3
L502	Commodity Description	79	AN	1/50
L503	Commodity Code (7 digit Standard Transportation Commodity Code (STCC)) (4611110 = Loaded Container FAK **only valid for use on domestic shipments)	22	AN	1/16
L504	Commodity Code Qualifier (T = Standard Transportation Commodity Code (STCC))	23	ID	1/1

**L0 Segment: Line Item, Quantity and Weight**

***L0\*1\*\*\*002000\*N\*\*\*0000600\*PCS\*\*K***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L001	Lading Line Item Number	213	N0	1/3
L004	Weight	81	R	1/8
L005	Weight Qualifier (N = Actual Net Weight) (A3 = Shipper's Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (CAS = Cases) (BDL = Bundles)	211	ID	3/3
L011	Weight Unit Code (L = Pounds) (K = Kilograms)	188	ID	1/1

**PI Segment: Price Authority**

***PI\*CT\*112112***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
PI01	Reference Number Qualifier (CT for contract, PR for Quote)	128	ID	2/3
PI02	Reference Number	127	AN	1/30

**SE Segment: Transaction Set Trailer**

***SE\*0024\*00920001***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
IEA01	Number of included Functional Groups	I16	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	9/9

Sample EDI Transmission with required data for the 404 Transaction Set for Intermodal traffic with transborder CN destinations, ramp-to-ramp:

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*130125\*145  
4\*U\*00602\*000054913\*0\*P^  
GS\*SR\*INTERMSHIP\*CN\*20130125\*0040\*00001\*X\*006020  
ST\*404\*00001  
BX\*00\*X\*PP\*\*CN\*L\*B\*\*\*\*30\*\*2  
BNX\*N\*\*S  
M3\*R\*20130125\*0040  
N9\*BM\*12050853\*\*20130125\*0040  
N9\*PO\*445927\*\*20130125\*0040  
N7\*ABCU\*627464\*13887\*N\*\*\*\*\*CN\*\*\*\*4000  
M7\*961766  
F9\*\*MONTREAL TASCH YAR\*PQ  
D9\*\*CHICAGO INTER TERM\*IL  
N1\*SH\*INTERMODAL SHIPPER INC  
N3\*123 ROAD  
N4\*MONTREAL\*PQ  
N1\*CN\*INTERMODAL SHIPPER INC  
N3\*12 SMITH STREET  
N4\*CHICAGO\*IL  
N1\*XU\*BROKER NAME INC  
N3\*123 ROAD  
N4\*PT HURON\*MI\*12345  
N1\*N1\*INTERMODAL SHIPPER  
N4\*CHICAGO\*IL  
N1\*UC\*MACHINE SERVICES  
N3\*745 DILLON DRIVE  
N4\*WOOD DALE\*IL  
N1\*BN\*SMITH MACHINE INC  
N3\*ONE STATION GATE  
N4\*ROMFORD\*ON  
R2\*CN\*S\*\*\*15\*X  
H3\*SLC  
LX\*1  
L5\*1\*VARIABLE SPEED DRIVES\*3599990\*T  
L0\*1\*\*\*13887\*N\*\*\*530\*PCS\*\*L  
PI\*CT\*112112  
SE\*32\*00001  
GE\*1\*00001  
IEA\*1\*000054913

**ISA Segment: Interchange Control Header**

**ISA\*00\*      \*00\*      \*ZZ\*GENERIC      \*02\*CN      \*130125\*145  
4\*U\*00602\*000054913\*0\*P\*^**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
ISA01	Authorization Information Qualifier	I01	ID	2/2
ISA02	Authorization Information (ten spaces)	I02	AN	10/10
ISA03	Security Information Qualifier	I03	ID	2/2
ISA04	Security Information	I04	AN	10/10
ISA05	Interchange ID Qualifier	I05	ID	2/2
ISA06	Interchange Sender ID (fill out with spaces)	I06	AN	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID	2/2
ISA08	Interchange Receiver ID (RR SCAC- 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 00602)	I11	ID	5/5
ISA13	Interchange Control Number (number assigned by sender)	I12	N0	9/9
ISA14	Acknowledgment Requested (0 = none required, 1= required)	I13	ID	1/1
ISA15	Usage Indicator (P = Production, T = Test)	I14	ID	1/1
ISA16	Component Element Separator	I15		1/1

**GS Segment: Functional Group Header**

**GS\*SR\*INTERMSHIP\*CN\*20130125\*0040\*00001\*X\*006020**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
GS01	Functional Identifier Code (SR = Rail Carrier Shipment Information)	479	ID	2/2
GS02	Application Sender's Code (Customer's sender ID)	142	AN	2/15
GS03	Application Receiver's Code (CN = Canadian National)	124	AN	2/15
GS04	Date (CCYYMMDD)	373	DT	8/8
GS05	Time (HHMM)	337	TM	4/6
GS06	Group Control Number (Assigned number originated and maintained by the sender)	28	N0	1/9
GS07	Responsible Agency Code (X = Accredited Standards Committee X12)	455	ID	1/2
GS08	Version / Release / Industry Identity (CN is using version 006020 of the X12 EDI Standards)	480	AN	1/12

**ST Segment: Transaction Set Header**

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

***ST\*404\*00001***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*L\*B\*\*\*\*30\*\*2***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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, CC = Collect)	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
BX11	Customs Documentation Handling Code (30 = Proforma with Broker Port of Exit/B13 Not Required)	501	ID	2/2
BX13	Tax reason Code (2 = GST Exemption Declaration)	714	ID	1/1

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

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
BNX01	Shipment Weight Code (Per car or Contract charge)	460	ID	1/1
BNX03	Billing Code (S = Single Shipment Billing)	11	ID	1/1

**M3 Segment: Release**

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

***M3\*R\*20130125\*0040***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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Seq	Name	Element	Type	Min/Max
M301	Release Code (R = Release with Shipment Information)	132	ID	1/1
M302	Release Date (CCYYMMDD)	373	DT	8/8
M303	Release Time (HHMM, 24 hour clock 0001-2359)	337	TM	4/6

**N9 Segment: Reference Number**

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

***N9\*BM\*12050853\*\*20130125\*0040***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N901	Reference Number Qualifier (BM = Bill of Lading Number) (PO = Purchase Order Number)	128	ID	2/2
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/30
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT	8/8
N905	Time (HHMM, 24 hour clock 0001-2359)	337	TM	4/6

**N7 Segment: Equipment Details**

***N7\*ABCU\*627464\*13887\*N\*\*\*\*\*CN\*\*\*\*4000***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N701	Equipment Initial	206	AN	1/4
N702	Equipment Number	207	AN	1/10
N703	Weight	81	R	1/8
N704	Weight Qualifier (N = Actual Net Weight)	187	ID	1/2
N711	Equipment Description Code (CN = Container {not otherwise specified} TL = Trailer {not otherwise specified})	40	ID	2/2
N715	Equipment Length (4000 = 40 feet 00 inches)	567	NO	4/5
N717	Weight Unit Code (K = Kilograms, L = Pounds)	188	ID	1/1
N718	Equipment Number Check Digit	761	NO	1/1
N720	Equipment Height (0102 = 102 inches or 8 ft. 6 in.)	65	R	1/8
N721	Equipment Width (0096 = 96 inches or 8 ft.)	189	R	1/8

**M7 Segment: Seal Numbers**

**M7\*961766**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
M701	Seal Number	225	AN	2/15

**F9 Segment: Origin**

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.

**F9\*\*MONTREAL TASCH YARD\*PQ**

Data Seq	Element Name	Data Element	Data Type	Characters Min/Max
F902	Origin Station	101	AN	2/19
F903	State Or Province Code	156	ID	2/2

**D9 Segment: Destination**

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

**D9\*\*CHICAGO INTER TER\*IL**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
D902	Destination Station (CHICAGO INTER TER = Chicago Intermodal Terminal)	300	AN	2/19
D903	State Or Province Code	156	ID	2/2

**N1 Segment: Name**

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

**N1\*SH\*INTERMODAL SHIPPER INC  
N3\*123 ROAD  
N4\*MONTREAL\*PQ  
N1\*CN\*INTERMODAL SHIPPER INC  
N3\*12 SMITH STREET  
N4\*CHICAGO\*IL  
N1\*N1\*INTERMODAL SHIPPER INC  
N4\*CHICAGO\*IL  
N1\*XU\*BROKER NAME INC**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (SH = Shipper) (SF = Ship From) (CN = Consignee) (BN = Beneficial Owner) (N1 = Notify Party) (UC = Ultimate Consignee) (XU = US Customs Broker) (XQ = Canadian Customs broker)	98	ID	2/2
N102	Name	93	AN	1/27

**N3 Segment: Address**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N301	Address Information	166	AN	1/30
N302	Address Information	166	AN	1/30

**N4 Segment: City**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N401	City Name	19	AN	2/19
N402	State Or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/9

**R2 Segment: Route Information**

One R2 segment for each railroad in the route. CN can provide route information for your shipments (ie: Railroad SCAC's and junctions).

**R2\*CN\*S\*\*\*15\*X**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
R201	Standard Carrier Alpha Code (SCAC) (CN = Canadian National etc)	140	ID	2/4
R202	Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail))	133	ID	1/2
R205	Intermodal Service Code (15 = Ramp to Ramp )	177	ID	1/2
R206	Transportation Method/Type Code (X = Piggyback)	91	ID	1/2

**H3 Segment: Special Handling Instructions**

**H3\*SLC**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
H301	Special Handling Code (SLC = Shipper Load and Count)	140	ID	2/4



**LX Segment: Assigned Number**

***LX\*1***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LX01	Assigned Number (Number assigned for differentiation within a transaction set)	554	N0	1/6

**L5 Segment: Commodity Description.**

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***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L501	Line Number	213	N0	1/3
L502	Commodity Description	79	AN	1/50
L503	Commodity Code (7 digit Standard Transportation Commodity Code (STCC))	22	AN	1/16
L504	Commodity Code Qualifier (T = Standard Transportation Commodity Code (STCC))	23	ID	1/1

**L0 Segment: Line Item, Quantity and Weight**

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

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L001	Lading Line Item Number	213	N0	1/3
L004	Weight	81	R	1/8
L005	Weight Qualifier (N = Actual Net Weight) (A3 = Shipper's Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (PCS = Pieces) (BDL = Bundles)	211	ID	3/3
L011	Weight Unit Code (L = Pounds) (K = Kilograms)	188	ID	1/1

**PI Segment: Price Authority**

***PI\*CT\*112112***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
PI01	Reference Number Qualifier (CT for contract,)	128	ID	2/3
PI02	Reference Number	127	AN	1/30

**SE Segment: Transaction Set Trailer**

***SE\*32\*00001***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*00001***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
IEA01	Number of included Functional Groups	I16	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	9/9

Sample EDI Transmission with required data for the 404 Transaction Set for Intermodal traffic that includes Hazardous Goods / Dangerous Goods:

ISA\*00\*            \*00\*            \*ZZ\*GENERIC            \*02\*CN            \*130125\*145  
4\*U\*00602\*000054913\*0\*P\*^  
GS\*SR\*INTERMSHIP\*CN\*20000207\*0728\*0092\*X\*006020  
ST\*404\*00920001  
BX\*00\*X\*PP\*\*CN\*K\*B  
BNX\*M\*\*S  
M3\*R\*20130125\*0728  
N9\*BM\*495033230\*\*20130125\*0728  
N9\*PO\*445927\*\*20000207\*0728  
N7\*ABCU\*620411\*0020000\*A3\*\*\*\*\*CN\*\*\*\*4000  
F9\*\*BRAMPTON INTER TER\*ON  
D9\*\*MONTREAL TASCH YARD\*PQ  
N1\*SH\*INTERMODAL SHIPPER INC  
N3\*123 ROAD  
N4\*TORONTO\*ON  
N1\*CN\*INTERMODAL SHIPPER INC  
N3\*12 SMITH STREET  
N4\*MONTREAL\*PQ  
N1\*N1\*INTERMODAL SHIPPER INC  
N4\*MONTREAL\*PQ  
R2\*CN\*S\*\*\*15\*X  
H3\*SLC  
LX\*1  
L5\*1\*FAK-HAZARDOUS GOODS\*4950150\*T  
L0\*1\*\*\*\*\*20000\*N\*\*\*200\*PCS\*L  
PI\*CT\*C-05555  
LS\*LH1  
LH1\*BX\*42\*UN2211\*\*4941144\*KG\*470\*\*\*III  
LH2\*9.1\*P  
LH3\*POLYMERIC BEADS,\*C  
LH3\*EXPANDABLE\*C  
LH3\*POLYMERIC BEADS,\*D  
LH3\*EXPANDABLE\*D  
LH4\*\*\*III  
PER\*HM\*service provider contract #\*TE\*1-613-996-6666  
N1\*SH\*Canadian hazardous materials consignor  
N3\*165 HARWOOD AVENUE NORTH  
N4\*AJAX\*ON\*L1Z1L9  
N1\*CN\*Canadian hazardous materials consignor  
N3\*5685 RUE CYPHOT  
N4\*ST LAURENT\*PQ\*H4S1R3  
LE\*LH1  
LH6\*JOHN Q. SHIPPER  
SE\*34\*0920001  
GE\*1\*0092  
IEA\*1\*000054913

All information required is the same for dangerous goods with the exception that the following segments must be included:

**LH1 Segment: Hazardous Identification Information**

***LH1\*BX\*42\*UN2211\*\*4941144\*LB\*4700\*\*\*III***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LH101	Unit or Basis For Measurement Code (BX = Box)	355	ID	2/2
LH102	Lading Quantity	80	N0	1/7
LH103	Un/Na Identification Code	277	ID	6/6
LH105	Commodity Code	22	AN	1/30
LH106	Unit or Basis For Measurement Code	355	ID	2/2
LH107	Quantity	380	R	1/15
LH110	Packing Group Code	254	ID	1/3

**LH2 Segment: Hazardous Classification Information**

***LH2\*9.1\*P***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LH201	Hazardous Classification	215	ID	1/30
LH202	Hazardous Class Qualifier	983	ID	1/1
LH203	Hazardous Placard Notation	218	ID	14/40
LH204	Hazardous Endorsement	222	ID	4/25
LH205	Reportable Quantity Code	759	ID	2/2

**LH3 Segment: Hazardous Material Shipping Name**

***LH3\*POLYMERIC BEADS,\*C***

***LH3\*EXPANDABLE\*C***

***LH3\*POLYMERIC BEADS,\*D***

***LH3\*EXPANDABLE\*D***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LH301	Hazardous Material Shipping Name	224	AN	1/25
LH302	Hazardous Material Shipping Name Qual. (C = Canadian, D = Domestic (U.S.))	984	ID	1/1

**LH4 Segment: Canadian Dangerous Requirements**

***LH4\*\*\*III***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LH403	Packing Group Code	254	ID	1/3

**PER Segment: Hazardous Communications Contact**

**PER\*CN\*name\*TE\*123-123-1234**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
PER01	Contact Function Code (HM = is the primary 24-hr emergency contact qualifier) (CN = In the case of a transborder shipment, if the emergency contact number is not accessible in both countries, the telephone number accessible in each country must be sent. The Canadian telephone number is sent in a PER segment with PER01 = CN and the US number with PER01 = HM) (MX = for shipments moving to Mexico, 'MX' indicates the 24-hr emergency contact where a Spanish speaking person can be reached.)	366	ID	2/2
PER02	Name Used to convey the contract holder name or contract number when the 24-hr- emergency Contact (PER03) is a service provider. Contract numbers are formatted CCN-nnnnnn	93	AN	1/35
PER03	Communication Number Qualifier (TE=Telephone)	365	ID	2/2
PER04	Communication Number	364	AN	1/25

**N1 segment within the LH1**

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

**N1\*SH\*Canadian hazardous materials consignor**  
**N3\*165 HARWOOD AVENUE NORTH**  
**N4\*AJAX\*ON\*L1Z1L9**  
**N1\*CN\*Canadian hazardous materials consignor**  
**N3\*5685 RUE CYPHOT**  
**N4\*ST LAURENT\*PQ\*H4S1R3**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (SH = Shipper) (CN = Consignee)	98	ID	2/2
N102	Name	93	AN	1/27

**N3 Segment: Address**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N301	Address Information	166	AN	1/30
N302	Address Information	166	AN	1/30

**N4 Segment: City**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N401	City Name	19	AN	2/19
N402	Province Code	156	ID	2/2

**LH6\*JOHN Q. SHIPPER****LH601 Segment: Hazardous Certification**

Provides the name of the person who prepared, and certifies to its accuracy, the documentation of the regulated commodity.

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LH601	Name	93	AN	1/60

*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
0102	118443	AUBINTTER	ME	AUBURN INTER TERM
0403	141260	AYEINTTER	MA	AYER INTERMODAL TER
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
3902	388419	EPEORIA	IL	EAST PEORIA
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
2015	487230	JACKSON	MS	JACKSON
3901	384040	JOLYARD	IL	JOLIET YARD
2006	439875	MEMINTTER	TN	MEMPHIS INTER TERM
01535	044716	MISINTSER	ON	MISSISSAUGA INT SER
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
12200	096201	PRIGEORGE	BC	PRINCE GEORGE
12442	097438	PRIRUPTER	BC	PRINCE RUPERT 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
0403	145460	WORINTTER	MA	WORCESTER INTER TER

Sample EDI Transmission with required data for the 404 Transaction Set for domestic traffic, door-to-door with multiple delivery (sample has 2 deliveries).

**ISA\*00\*            \*00\*            \*ZZ\*GENERIC            \*02\*CN            \*130125\*145**  
**4\*U\*00602\*000054913\*0\*P\*^**  
**GS\*SR\*INTERMSHIP\*CN\*20130125\*0728\*0092\*X\*006020**  
**ST\*404\*00920001**  
**BX\*00\*X\*PP\*\*CN\*K\*B**  
**BNX\*N\*\*S**  
**M3\*R\*20130125\*0728**  
**N9\*BM\*495033230\*\*20130125\*0728**  
**N9\*PO\*445927\*\*20130125\*0728**  
**N7\*CNRU\*220411\*22162\*A3\*\*\*\*\*CN\*\*\*\*4800**  
**F9\*\*MONTREAL\*PQ**  
**D9\*\*CALGARY\*AB**  
**N1\*SH\*INTERMODAL SHIPPER INC**  
**N3\*123 ROAD**  
**N4\*MONTREAL\*PQ**  
**N1\*CN\*INTERMODAL SHIPPER INC**  
**N3\*123 SMITH STREET**  
**N4\*CALGARY\*AB**  
**N1\*N1\*INTERMODAL SHIPPER INC**  
**S1\*1\*Intermodal first delivery\*\*\*\*A**  
**S2\*1\*8030 EXQUESING LINE**  
**S9\*1\*\*CALGARY\*AB\*\*PU**  
**R2\*CN\*S\*\*\*20\*X**  
**LX\*1**  
**L5\*1\*FAK\*4611110\*T**  
**L0\*1\*\*\*22162\*N\*\*\*1738\*CAS**  
**LX\*2**  
**L5\*2\*DELY: 1 # PCS: 511 WEIGHT: 8453 POUNDSPI\*CT\*C-05555**  
**LX\*3**  
**L5\*3\*DELY: 2 # PCS: 1227 WEIGHT: 13709 POUNDS**  
**SE\*0023\*00920001**  
**GE\*1\*0092**

All information required is formatted in the same manner as previous 404 samples.  
Additional segment requirement for multiple delivery (pick-up or delivery):

**S1 Segment: Name**

Used to identify the stop-off party

**S1\*1\*Intermodal consignee (first delivery)\*\*\*\*A**

**S2\*1\*8030 EXQUESING LINE**

**S9\*1\*\*CALGARY\*AB\*\*PU**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
S101	Stop Sequence Number	165	N0	1/3
S102	Name	93	AN	1/35
S106	Accomplish Code	190	ID	1/1

A = Accomplished  
P = Pending

**S2 Segment: Address**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
S201	Stop Sequence Number	165	N0	1/3
S202	Address Information	166	AN	1/30
S203	Address Information	166	AN	1/30

**S9 Segment: Stop-off Station**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
S901	Stop Sequence Number	165	N0	1/3
S903	City Name	19	AN	2/30
S904	State or Province Code	156	ID	2/2
S906	Stop Reason Code	163	ID	2/2

PU = Part Unload  
PL = Part Load