



**Bill of Lading
404
EDI Mapping**

Ocean Shipper Inc

Customer eBusiness

(800)361-0198

eBusiness@cn.ca

Canadian National Railway - Electronic Commerce

The enclosed documentation covers information required to handle import traffic for domestic and cross border shipments. The 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 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 shipments for cross border much farther in advance.

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

CN is currently using the X12 Standard Version/Release 4050/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set for Ocean import traffic:
[Ocean Shipper Inc EDI 404 Implementation Guide](#)

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 00405)	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*OCEANSHIP*CN*20000207*0728*0092*X*004050

Element	Element	Data	Data	Characters
Seq	Name	Element	Type	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 004050 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*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
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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*M**S

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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*20000207*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*49503323020000207*0728**

N9*OB*9165A699C605495033230*0000600*20000207*0728

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N901	Reference Number Qualifier (BM = Bill of Lading number) (OB = Ocean Bill of Lading Number)	128	ID	2/2
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/30
N903	Shipment Piece Count (For N9*OB only)			
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT	8/8
N905	Time (HHMM, 24 hour clock 0001-2359)	337	TM	4/6

CM Segment: Cargo Manifest

CM*453W*D***KAMAKURA**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
CM01	Flight/Voyage Number	55	AN	2/10
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*002000*A3***CN****4000***9**0102**

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})	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 can provide spellings for your stations.

F9FAICOVIMP*NS**

Data Seq	Element Name	Data Element	Data Type	Characters Min/Max
F902	Origin Station (FAICOVIMP = Fairview Cove Impex)	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 can provide spellings for your stations.

D9MONMONINT*PQ**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
D902	Destination Station (BRAINTTER = Brampton Intermodal Terminal) (MONMONINT = Montreal 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*OCEAN SHIPPER INC

N1*CN*OCEAN SHIPPER INC
N1*N1*OCEAN SHIPPER INC

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (BN = Beneficial Owner) (C1 = Care of Party) (N1 = Notify Party) (UC = Ultimate 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	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*85*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 (85 = Ramp to Ramp Impex)	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

Seq	Name	Element	Type	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)	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*10020000*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.)	128	ID	2/3
PI02	Reference Number	127	AN	1/30

SE Segment: Transaction Set Trailer

SE*0020*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 Ocean import traffic for U.S. CN destinations:

**ISA*00* *00* *ZZ*GENERIC *02*CN *020725*145
4*U*00405*000054913*0*P*^**

GS*SR*OCEANSHIP*CN*20000207*0040*00001*X*004050
 ST*404*00001
 BX*00*X*PP**CN*L*B****30**2
 BNX*M**S
 M3*R*20000207*0040
 N9*BM*12050853**20000207*0040
 N9*OB*9165CX075512050853*000530*20000207*0040
 N9*MA*CNRU000003139761**20000207*0040
 N9*BJ*V3802319847**20000207*0040
 CM*453W*D*****KAMAKURA
 N7*ABCU*627464*13887*N*****CN****4000**L*4**0102*0096
 M7*961766
 F9**MONIMPEX*PQ
 D9**CHIINTTER*IL
 N1*SH*OCEAN SHIPPER INC
 N1*CN*OCEAN SHIPPER INC
 N1*CB*OCEAN SHIPPER INC
 N1*N1*OCEAN SHIPPER
 N1*BN*MACHINE SERVICES
 N3*745 DILLON DRIVE
 N4*WOOD DALE*IL
 N1*UC*SMITH MACHINE INC
 N3*ONE STATION GATE
 N4*ROMFORD*ON
 R2*CN*S***85*X
 H3*SLC
 LX*1
 L5*1*VARIABLE SPEED DRIVES*3599990*T
 L0*1***13887*N***530*PCS**L
 PI*CT*112112
 SE*30*00001
 GE*1*00001
 IEA*1*000054913

ISA Segment: Interchange Control Header

<i>ISA*00*</i>	<i>*00*</i>	<i>*ZZ*GENERIC</i>	<i>*02*CN</i>	<i>*020725*145</i>
<i>4*U*00405*000054913*0*P*^</i>				
Element	Element	Data	Data	Characters

Seq	Name	Element	Type	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 00405)	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*OCEANSHIP*CN*20000207*0040*00001*X*004050

Element	Element	Data	Data	Characters
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Seq	Name	Element	Type	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 004050 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
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Seq	Name	Element	Type	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*M**S

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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*20000207*0040

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*1205085320000207*0040**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N901	Reference Number Qualifier (BM = Bill of Lading Number) (OB = Ocean Bill of Lading Number/Canada Customs Cargo Control Number) (MA = Manifest Number) (BJ = Customs Vbond Number)	128	ID	2/2
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/30
N903	Shipment Piece Count (For N9*OB only)			
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT	8/8
N905	Time (HHMM, 24 hour clock 0001-2359)	337	TM	4/6

CM Segment: Cargo Manifest

CM*453W*D***KAMAKURA**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
CM01	Flight/Voyage Number	55	AN	2/10
CM02	Port Function Code (D = Port of Discharge)	115	ID	1/1
CM03	Port Name	114	AN	2/24
CM09	Vessel Name (per Lloyds registry)	182	AN	2/28
CM13	Province	156	ID	2/2
CM15	Reference ID (Lloyds Vessel Code)	127	AN	1/30

N7 Segment: Equipment Details

N7*ABCU*627464*13887*N***CN****4000**L*4**0102*0096**

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})	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 can provide spellings for your stations.

F9MONIMPEX*PQ**

Data Seq	Element Name	Data Element	Data Type	Characters Min/Max
F902	Origin Station (FAICOVIMP = Fairview Cove Impex) (VANCENPIE = Vancouver Centennial Pier) (MONIMPEX = Montreal IMPEX)	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 can provide spellings for your stations.

D9CHIINTTER*IL**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
D902	Destination Station (CHIINTTER = 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*OCEAN SHIPPER INC

N1*CN*OCEAN SHIPPER INC

N1*CB*OCEAN SHIPPER 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) (C1 = Care of Party) (N1 = Notify Party) (UC = Ultimate Consignee) (CB = Customs Broker)	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*85*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 (85 = Ramp to Ramp Impex)	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
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Seq	Name	Element	Type	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)) (4611110 = Loaded Container FAK)	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*113887*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*24*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 Ocean import traffic that includes Hazardous Goods / Dangerous Goods:

ISA*00* *00* *ZZ*GENERIC *02*CN *020725*145

4*U*00405*000054913*0*P*^
 GS*SR*OCEANSHIP*CN*20000207*0728*0092*X*004050
 ST*404*00920001
 BX*00*X*PP**CN*K*B
 BNX*M**S
 M3*R*20000207*0728
 N9*BM*495033230**20000207*0728
 N9*OB*9165A699C605495033230*0000600*20000207*0728
 CM*453W*D*****KAMAKURA
 N7*ABCU*620411*0020000*A3*****CN****4000***9**0102
 F9**FAICOVIMP*NS
 D9**MONMONINT*PQ
 N1*SH*OCEAN SHIPPER INC
 N1*CN*OCEAN SHIPPER INC
 N1*N1*OCEAN SHIPPER INC
 R2*CN*S***85*X
 H3*SLC
 LX*1
 L5*1*POLYMERIC BEADS, EXPANDABLE*4941144*T
 L0*1*****42*BOX
 PI*CT*C-05555
 LS*LH1
 LH1*BX*42*UN2211**4941144*LB*44700***III
 LH2*9.1*P
 LH3*POLYMERIC BEADS,*C
 LH3*EXPANDABLE*C
 LH3*POLYMERIC BEADS,*D
 LH3*EXPANDABLE*D
 LH4***III
 PER*CN*CANUTEC*TE*1-613-996-6666
 LE*LH1
 SE*30*0920001
 GE*1*0092
 IEA*1*000054913

All information required for the 404 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*44700III***

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

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
LH401	Emergency Plan Number	238	AN	1/12
LH402	Communication Number	364	AN	1/25
LH403	Packing Group	254	ID	

PER Segment: Hazardous Communications Contact***PER*CN*name*TE*123-123-1234***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
PER01	Contact Function Code (CN=Canadian Hazardous Material Contact Qualifier) (HM=USA Hazardous Material Contact Qualifier)	366	ID	2/2
PER03	Communication Number Qualifier (TE=Telephone)	365	ID	2/2
PER04	Communication Number	364	AN	1/25