



**Bill of Lading
404
EDI Mapping**

Price Reference Identification

Canadian National Railway - Electronic Commerce

The enclosed documentation covers information required to include the Price Reference Identification within the EDI 404 transmission. The placement of the PI segment differs based on the EDI Rail version being used.

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

CN is currently using the X12 Standard Version/Release 7010/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set including the Price Reference Identification for Rail EDI version 3020 to 3040.

ISA*00* *00* *ZZ*GENERIC *02*CN
*180112*0959*U*00200*000026095*0*P*>
GS*SR*GENERIC*CN*180112*0959*26095*X*003040
ST*404*260950001
BX*00*R*PP**CN*L*B
BNX*A**S
M3*R*110719*0959
N9*BM*054I19800*CN*180112*0959
N9*CT*CN 823303AM*CN*1801129*0959
N9*KL*CN T0000822329001821
N7*ARMN*110001*98081*N*****RC
N7*ARMN*110001*98081*N*****RC
M7*028365 028366
F9**STORM LAKE*IA
D9**SEATTLE*WA
N1*SH*GENERIC CARLOAD INC
N3*123 MAIN STREET
N4*STORM LAKE*IA
N1*CN*GENERIC CONSIGNEE
N3*123 MAIN STREET
N4*SEATTLE*WA
PER*DC*SALLY*TE*2066224000
N1*PF*GENERIC PAYOR
N3*123 MAIN DRIVE
N4*VANCOUVER*BC
R2*CN*S*SXCTY***R
R2*UP*1
LX*1
L5*1*WALLBOARD*3275440*T
LS*LX
LX*1
L0*1***98081*N***1*CLD
LE*LX
SE*33*260950001
GE*1*26095
IEA*1*000026095

ISA Segment: Interchange Control Header

**ISA*00* *00* *ZZ*GENERIC *02*CN
*180112*0959*U*00200*000026095*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 (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 00701)	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*180112*0959*26095*X*003040

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 004010 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*260950001

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*R*PPCN*L*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 (R = Rail)}	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*AS**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
BNX01	Shipment Weight Code (A = Wgt Agreement Number) (N = Per Car Charge) (R = Rail Carrier Scale)	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 receive or will be released through other means.

M3*R*180112*0959

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*054I19800*CN*180112*0959
N9*CT*CN 823303AM*CN*180112*0959
N9*KL*CN T000822329001821

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N901	Reference Number Qualifier BM = Bill of Lading number WM = Weight Agreement Number (PO = Purchase order Number CT = Contract Number KL = Price Reference Identification	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*ARMN*110001*98081*N***RC**
N7*ARMN*110011*98081*N***RC**

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

M7 Segment: Seal Numbers

M7*028365 028366

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
M701	Seal Number	225	AN	2/15
M702	Seal Number	225	AN	2/15
M703	Seal Number	225	AN	2/15
M704	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.

F9STORM LAKE*IA**

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 can provide spellings for your stations.

D9SEATTLE*WA**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
D902	Destination Station	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*GENERIC CARLOAD INC
N3*123 MAIN STREET
N4*STORM LAKE*IA
N1*CN*GENERIC CONSIGNEE
N3*123 MAIN STREET
N4*SEATTLE*WA**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (C1 = Care of Party) (PH = Payor of Freight Charges)	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*SXCTY*R
R2*UP*1**

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
R206	Transportation Method/Type Code (R = Rail)	91	ID	1/2

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*WALLBOARD*3275440*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)) (eg. WALLBOARD = 3275440)	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*98081*N***1*CLD**

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 (E = Estimated Weight) (N = Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (CLD = Carload)	211	ID	3/3
L011	Weight Unit Code (L = Pounds) (K = Kilograms)	188	ID	1/1

SE Segment: Transaction Set Trailer

SE*20*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*26095

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

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

CN is currently using the X12 Standard Version/Release 6020/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set including the Price Reference Identification for Rail EDI version 3050 to 5040.

ISA*00* *00* *ZZ*GENERIC *02*CN
*180112*1213*U*00401*000007015*0*T*>
GS*SR*GENERIC*CN*20180112*1213*7015*X*004010
ST*404*86356
BX*00*R*CC**CN*L*B****30**2
BNX*E**S
M3*R*20180112*1213
N9*BM*784224**20180112*1213
N9*HS*8708.99.8080
N7*FTTX*925112*54994*N*****BX
F9**ST THOMAS*ON
D9**FLINT*MI
N1*SH*GENERIC CARLOAD
N3*123 MAIN STREET
N4*ST THOMAS*ON
PER*IC**TE*15196338400
N1*CN*GENERIC CONSIGNEE
N3*VAN 123 MAIN STREET
N4*FLINT*MI
N1*PF*GENERIC PAYOR
N3*123 MAIN STREET
N4*FORT MYERS*FL
R2*CN*S****R
LX*1
L5*1*WALLBOARD*3275440*T
L0*1***54994*N***72*PCS
PI*KL*CN Q0000519116000002
X1***C*****72*91117***1265.52
XH*CDN*N*595
SE*38*86356
GE*1*7015
IEA*1*000007015

ISA Segment: Interchange Control Header

**ISA*00* *00* *ZZ*GENERIC *02*CN
*180112*1213*U*00401*000007015*0*T*>**

Element Seq	Element Name	Data	Data Element	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 (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 00701)		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*20180112*1213*7015*X*004010

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 004010 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*86356

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*R*CC**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 (R = Rail)}	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, no B13 required)	501	ID	2/2
BX13	GST Declaration code (2 = No GST to apply)	714	ID	1/1

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

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
BNX01	Shipment Weight Code (A = Wgt Agreement Number) (N = Per Car Charge) (R = Rail Carrier Scale)	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*20180112*1213

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*78422420180112*1213**

N9*HS*8708.99.8080

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N901	Reference Number Qualifier (BM = Bill of Lading number) (WM = Weight Agreement Number (PO = Purchase order Number HS = Harmonized Code System)	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*FTTX*925112*54994*N***BX**

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

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.

F9ST THOMAS*ON**

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 can provide spellings for your stations.

D9FLINT*MI**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
D902	Destination Station	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*GENERIC CARLOAD
N3*123 MAIN STREET
N4*ST THOMAS*ON
PER*IC**TE*15196338400
N1*CN*GENERIC CONSIGNEE
N3*VAN 123 MAIN STREET
N4*FLINT*MI**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (C1 = Care of Party) (PF = Payor of Freight) (CB = 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**R**

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)) (1 = 1 st carrier after origin carrier) (2 = 2 nd carrier after origin carrier)	133	ID	1/2
R206	Transportation Method/Type Code (R = Rail)	91	ID	1/2

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*WALLBOARD*3275440*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)) (ie 3275440 = Wallboard)	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*54994*N***72*PCS**

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 (E = Estimated Weight) (N = Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (CLD = Carload)	211	ID	3/3
L011	Weight Unit Code (L = Pounds) (K = Kilograms)	188	ID	1/1

PI Segment: Price Reference Identification

PI*KL*CN Q0000519116000002

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
PI01	Reference Number Qualifier (KL = Contract Reference)	128	ID	2/3
PI02	Reference Number ** note there are 2 blank spaces from CN to the start of the ID number	127	AN	1/30

X1 Segment: Export License

X1*C*****72*91117***1265.52**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
X103	Export License Status Code	51	ID	1/1
X110	Lading Quantity	80	N0	1/7
X111	Lading Value	148	R	2/9
X114	Unit Price	212	R	1/17

XH Segment: Pro Forma – B13 Information

XH*CDN*N*595

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
XH01	Currency Code	100	ID	3/3
XH02	Related Company Indication Code	645	ID	1/1
XH03	Special Charge or Allowance Code	150	ID	3/3

SE Segment: Transaction Set Trailer

SE*38*86356

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*7015

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)			

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

CN is currently using the X12 Standard Version/Release 7010/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set including the Price Reference Identification for Rail EDI version 5050 to current.

ISA*00* *00*KNSX *ZZ*GENERIC *02*CN
*110907*1513*U*00505*000037663*0*P*>
GS*SR*GENERIC*CN*20180112*1513*37663*X*00**5050**
ST*404*376630005
BX*00*R*PP**CN*L*B
BNX*S**S
M3*R*20180112*1513
N9*BM*564975*CN*20180112*1513
N7*UTLX*952106*147257*N*****RR
REF*KL*1
L0*1
PI*KL*CN T0000822329001821
F9**EAST MORRIS*IL
D9**LORENZO*IL
N1*SH*GENERIC CARLOAD
N3*123 MAIN STREET
N4*MORRIS*IL
N1*CN*GENERIC CONSIGNEE
N3*456 MAIN STREET
N4*CHANNAHON*IL*60000
N1*PF*GENERIC PAYOR
N3*501 WESTLAKE PARK BOULEVARD
N4*HOUSTON*TX*77079*US
R2*CN*S*EOLA
R2*BNSF*1
LX*1
L5*1*LIQUEFIED PETROLEUM GASES*4905753*T
L0*1***147257*N***1*CLD
LS*700
LH1*C4*1*UN1075**4905753
LH2*2.1*P
LH3*LIQUEFIED PETROLEUM GASES*D
LFH*ADI*NOT ODORIZED
LE*700
PER*HM*CCN 2000*TE*8159415858
LH6*HAZARDOUS CERTIFICATION
SE*36*376630005
GE*1*37663
IEA*1*000037663

ISA Segment: Interchange Control Header

**ISA*00* *00*KNSX *ZZ*GENERIC *02*CN
*110907*1513*U*00505*000037663*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 (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 00701)	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*20180112*1513*37663*X*005050

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 004010 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*376630005

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*R*PP**CN*L*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 (R = Rail)}	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, no B13 required)	501	ID	2/2
BX13	GST Declaration code (2 = No GST to apply)	714	ID	1/1

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

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
BNX01	Shipment Weight Code (A = Wgt Agreement Number) (N = Per Car Charge) (R = Rail Carrier Scale)	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*20180112*1513

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*564975*CN*20180112*1513

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N901	Reference Number Qualifier (BM = Bill of Lading number) (WM = Weight Agreement 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*UTLX*952106*147257*N*****RR**

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

REF Segment: Reference information (N7/REF)**REF*KL*1**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
REF01	Reference Identification Qualifier	128	ID	2/3
REF02	Reference Identification KL= Contract Reference	127	AN	1/30

L0 Segment: Line Item

L0*1

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L001	Lading Line Item Number	213	N0	1/6

PI Segment: Price Reference Identification

PI*KL*CN T0000822329001821

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
PI01	Reference Number Qualifier (KL = Contract Reference)	128	ID	2/3
PI02	Reference Number ** note there are 2 blank spaces from "CN" to the start of the ID number	127	AN	1/30

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.

F9EAST MORRIS*IL**

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 can provide spellings for your stations.

D9LORENZO*IL**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
D902	Destination Station	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*GENERIC CARLOAD
N3*123 MAIN STREET
N4*MORRIS*IL
N1*CN*GENERIC CONSIGNEE
N3*456 MAIN STREET
N4*CHANNAHON*IL*60000**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (C1 = Care of Party) (PF = Payor of Freight) (CB = 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*EOLA R2*BNSF*1

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)) (1 = 1 st carrier after origin carrier) (2 = 2 nd carrier after origin carrier)	133	ID	1/2
R206	Transportation Method/Type Code (R = Rail)	91	ID	1/2

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*LIQUEFIED PETROLEUM GASES*4905753*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)) (ie 3275440 = Wallboard)	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*147257*N***1*CLD**

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 (E = Estimated Weight) (N = Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (CLD = Carload)	211	ID	3/3
L011	Weight Unit Code (L = Pounds) (K = Kilograms)	188	ID	1/1

LS Segment: Loop Header

Identifies the start of the Hazmat documentation loop.

LS*700

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LS01	Loop Identifier Code	447	AN	¼

LH1 Segment: Hazardous Identification Information

LH1*C4*1*UN10754905753**

<u>Element Seq</u>	<u>Element Name</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
LH101	Unit or Basis For Measurement Code (TK = Tank) (C4 = Carload)	355	ID	2/2
LH102	Lading Quantity	80	NO	1/7
LH103	UN or NA Identification Code	277	ID	6/6
LH105	Commodity Code (7 digit Standard Transportation Commodity Code (STCC))	22	AN	1/16
LH106	Unit or Basis for Measurement Code (LB = Pound) (KG = kilogram)	355	ID	2/2
LH107	Quantity	380	R	1/15
LH110	Packing Group Code	254	ID	1/3

LH2 Segment: Hazardous Classification Information

Provides classification information.

LH2*2.1*P

<u>Element Seq</u>	<u>Element Name</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
LH201	Hazardous Classification	215	ID	2/30
LH202	Hazardous Class Qualifier (P=Primary)	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

Provides the Proper Shipping Name as required by the CFR49 or TDG regulations, and the regulations under which the shipment is being made

LH3*LIQUEFIED PETROLEUM GASES*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 Qualifier	984	ID	1/1

C = Canadian Shipping Name

D = USA Shipping Name

I = International Shipping Name

LFH Segment: Additional Information

Provides additional information related to the shipment of the regulated product.

LFH*ADI*NOT ODORIZED

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LFH01	Hazardous Material Information Qualifier	808	ID	3/3
LFH02	Hazardous Material Shipment Information	809	AN	1/25
LFH03	Hazardous Material Shipment Information	809	AN	1/25
LFH04	Hazard Zone Code	1023	ID	1/1
LFH05	Units or Basis of Measurement	355	ID	2/2
LFH06	Quantity	380	R	1/15
LFH07	Quantity	380	R	1/15

LH6 Segment: Hazardous Certification

To specify the name of the person certifying that the shipment complies with the regulations and/or the actual certification.

LH6*CERTIFYING PERSON NAME

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LH601	Name	93	AN	1/35

PER Segment: Hazardous Communications Contact

Provides contact information as required by regulations

PER*HM*CCN 2000*TE*8159415858

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 <i>Number, without formatting, for the type of contact in PER03</i>	364	AN	1/25

SE Segment: Transaction Set Trailer

SE*36*376630005

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*37663

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)			