

Implementation Guide Motor Carrier Freight Details and Invoice message

EDI 210 Version 4010

Description: A Guide for the implementation of electronic receipt of Freight Invoices from CN pertaining to the movement of freight.

Purpose of EDI 210 Motor Carrier Freight Details and Invoice message

When a movement of freight is initiated by the receipt of Shipping Instructions (a bill of lading), a charge for the transportation is generated and sent as an invoice. This document will explain how to receive an invoice using EDI. Other electronic options, such as eBill Service (a tool on CN One website) are described on the CN One website at http://www.cn.ca where you can also view a demo.

Note: This process does not present invoices for ancillary or accessorial charges (Optional Services). These invoices are available on the web using the eBill Service tool.

Types of Invoices

The following types of invoices are available using this transaction:

- Normal Freight Invoice
- Balance Due Invoice (optional)
- Corrected Invoice (optional)

EDI Version & Guidelines

This document describes the implementation of EDI 210 Motor Carrier Freight Details and Invoice using ANSI version 4010. CN is also capable of sending EDI 410 Rail Carrier Freight Details and Invoice ANSI X12 Version 4010.

It is mandatory to send an EDI 997 Functional Acknowledgement for each EDI 210 or EDI 410 received.

Special Format Options

It is the responsibility of the Receiver who requires coding or mapping structure, other than that expressly written in the Mapping or Implementation Guide documents, to have the necessary changes performed at their system or through a Value Added Network (VAN).

Connection Options

CN has direct connection with 3 VAN's (Value Added Networks). They are Open Text GXS, Transentric, and Kleinschmidt (KNSX). Interconnection to other VANs is also available. Exchange through secured MFT is now available at CN at https://mftedi.cn.ca/ and is free of charge to customers. Invoices sent via secured FTP will conform to EDI 210 Standards.

CN Contact

CN provides an email address for Freight Invoice inquiries RMGEC@cn.ca

The EDI Onboarding team email address is EDIMGR@cn.ca. You can also visit us at <a href="https://www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/edi/www.cn.ca/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/customer-centre/tools/en/custo

Message Timing

Freight Invoices are created at all times of the day. The EDI process will accumulate all invoices for the day and transmit them overnight, seven days a week. EDI 824 Remittance Advice messages are accepted at all times of the day so you can send them as soon as your process completes the preparation of the file.

Your Data Requirements

If your company has specific data requirements, such as specific reference numbers that must be on the invoice to reconcile within your systems, it is important that this information be provided on the Shipping Instructions. Request for any information other than Bill of Lading number will not be reliably provided unless the Shipping Instructions provided by the shipper of the goods is submitted using electronic means.

Getting Started

To begin the process of implementation you should do the following:

- 1. Notify us at EDIMGR@cn.ca that you want to receive Freight Invoices using EDI. This message should include your full company name and location, as well as both an Accounts Payable and EDI Technical contact.
- 2. CN will then assign someone to work with you on the implementation.
- 3. A review and walkthrough of the Mapping Guide and this Implementation Guide will facilitate understanding of the data and requirements.
- 4. Define any special data requirements, such as Purchase Order numbers or other reference numbers.
- 5. Technical details must be resolved such as the Value Added Network to be used, and the sender and receiver IDs.
- 6. CN supports a fully functional test system for technical and business validation of the exchange.

Using the Mapping Guide

Each Segment and Data Element in the transaction is identified in Segment and Data element order. The following information is available for each:

- Element Code, this is the Data Segment + position within the segment.
- Element Number, this is the ANSI reference to the data contained in this position.
- Element Name, the name of the data
- Element Type, the ANSI designation for the Data Elements
- Element Length, showing the Minimum/Maximum length of the data.
- Required, shows the Mandatory, Conditional, or Optional indication for this information.
- Description, notes on CN's usage of this data element, including accepted values.

Sample EDI 210 transmission: \$US Invoice

ISA*00* *00* *02*CN *ZZ*RECEIVERID *231128*0035*U*00401*000000340*0*P*>

GS*IM*CN*RECEIVERID*20231128*0035*340*X*004010

ST*210*340001

B3*B*28066945*291226*PP**20231128*275433****CNRU

C3*USD

N9*WY*545497**20231126

N9*BM*291226**20231126

N9*GT*10076 8779 RT0001*GOODS AND SERVICES TAX REGISTRATION NUMBER

N9*CT*CN 024091 19

N9*ZZ*1000043156 TQ 0514*QUEBEC SALES TAX REGISTRATION NUMBER

N1*PR*PAYER NAME*25*793585A

N3*123 W FRONTAGE RD

N4*NORTHFIELD*IL

N1*CN*CONSIGNEE*25*177835

N3*135 GUERNSEY IND BLVD

N4*CAMBRIDGE*OH*43725

N1*SH*SHIPPER NAME*25*793585

N3*123 MAIN ST

N4*MILLSDALE*IL

N7*UTLX*666955*187000*N*77500******RR*UTLX***0000*A****179**T107

LX*1

L5*1*COMPOUNDS, CLEANING, SCOURING OR WASHING, NEC, LI*2841920*T

L0*1***187000*N***1*TKR L0*1***1*N

L1*1*2510*PC*251000

L1*1*0.1980*PM*24433****ENS******1234*MR

L7*1*CN*123456**1050000

L3*187000*N***275433****0*E

SE*30*340001

GE*1*340

IEA*1*00000340

Sample EDI 210 transmission: \$CAD Invoice

ISA*00* *00* *02*CN *ZZ*RECEIVERID *231128*0035*U*00201*000000612*0*P*>

GS*IM*CN*RECEIVERID*20231128*0035*612*X*004010

ST*210*612001

B3*B*28061234*102141*PP**20231128*208360****CNRU

C3*CAD

N9*WY*557171**20231127

N9*BM*102141**20231127

N9*GT*10076 8779 RT0001*GOODS AND SERVICES TAX REGISTRATION NUMBER

N9*SI*102141

N9*PA**PRICE APPLICATION DATE*20060628

N9*ZZ*1000043156 TQ 0514*QUEBEC SALES TAX REGISTRATION NUMBER

N1*PR*PAYER NAME*25*772305B

N3*123 NEWBRIDGE ROAD

N4*ETOBICOKE*ON

N1*CN*CONSIGNEE*25*772305

N3*1800 INKSTER BLVD

N4*WINNIPEG SYMING YAR*MB*R2X2Z5

N1*SF*SHIP FROM NAME*25*772305

N3*123 NEWBRIDGE RD

N4*ETOBICOKE*ON

N1*SH*SHIPPER NAME*25*772305B

N3*123 NEWBRIDGE RD

N4*BRAMPTON INTER TERM*ON

N7*TCNU*911084*36986*N*7500******CN****4000*A*******U203

LX*1

L5*1*ALL FREIGHT RATE SHIPMENTS, NEC, OR TRAILER-ON-F*4611110*T

L0*1***36986*N***1*CNT

L0*1***1*N

L0*1***1*N L1*1*1705*PU*170500

L1*1*0.1980*PM*24433****ENS******1234*MR

L1*1*.07*CT*13427****GST

L7*1*CN*638931**1050000

L3*36986*N***208360****0*E

SE*36*612001

GE*1*612

IEA*1*000000612

ISA Segment: Interchange Control Header

ISA*00* *00* *02*CN *ZZ*RECEIVERID *231128*0035*U*00401*000000340*0*P*>

Ref. Des.	Name	Data Element	Attributes	
ISA01	Authorization Information Qualifier	I01	ID	2/2
ISA02	Authorization Information	I02	AN	10/10
	(Ten spaces)			
ISA03	Security Information Qualifier	I03	ID	2/2
ISA04	Security Information	I04	AN	10/10
	(Ten spaces)			
ISA05	Interchange ID Qualifier (02=SCAC)	I05	ID	2/2
ISA06	Interchange Sender ID	I06	AN	15/15
	(CN – fill out rest of field with spaces)			
ISA07	Interchange ID Qualifier	I05	ID	2/2
	(If RR SCAC use 02)			
ISA08	Interchange Receiver ID	I07	AN	15/15
	(RECEIVERID - fill out rest of field with sp	paces)		
ISA09	Interchange Date	I08	DT	6/6
	(YYMMDD)			
ISA10	Interchange Time	I09	TM	4/4
	(HHMM)			
ISA11	Repetition Separator	I65		1/1
	(Suggest "^")			
ISA12	Interchange Control Version Number (Value 00401)	I11	ID	5/5
ISA13	Interchange Control Number	I12	N0	9/9
	(a control number assigned by CN)			
ISA14		I13	ID	1/1
	(0 = none requested)			
	(1= requested)			
ISA15	Usage Indicator	I14	ID	1/1
	(P = Production)			
	(T = Test)			
ISA16	Component Element Separator	I15		1/1
	(Suggest ":")			

GS Segment: Functional Group Header

GS*IM*CN*RECEIVERID*20231128*0035*340*X*004010

Ref. Des.	Name	Data Element	Attribut	es
GS01	Functional Identifier Code	479	ID	2/2
	(IM= Motor Carrier Freight Details and Invo	oice (210)		
GS02	Application Sender's Code	142	AN	2/15
GS03	Application Receiver's Code	124	AN	2/15
GS04	Date	373	DT	8/8
	(CCYYMMDD)			
GS05	Time	337	TM	4/6
	(HHMM)			
GS06	Group Control Number	28	N0	1/9
	(Assigned number originated and			
	maintained by CN)			
GS07	Responsible Agency Code	455	ID	1/2
	(X = Accredited Standards Committee X12)			
GS08	Version / Release / Industry Identity	480	AN	1/12

ST Segment: Transaction Set Header

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

ST*210*340001

Ref. Des.	Name	Data Element	Attribut	tes
ST01	Transaction Set Identifier Code	143	ID	3/3
	(210= Motor Carrier Freight Details and Inv	voice)		
ST02	Transaction Set Control Number	329	AN	4/9
	(Sequential control number generated by Cl	N)		

B3 Segment: Beginning Segment for Carrier's Invoice

B3*B*28066945*291226*PP**20231128*275433****CNRU

Name	Data Element	Attribut	es
Shipment Qualifier	147	ID	1/1
(B= Bill of Lading for Individual Shipment)			
Invoice Number	76	AN	1/22
(CN invoice Number)			
Shipment ID Number	145	AN	1/30
(Bill of Lading Number)			
Shipment Method of Payment	146	ID	2/2
(PP=prepaid)			
Invoice Date	373	DT	8/8
(YYYYMMDD)			
Net Amount Due	193	N2	1/12
Standard Carrier Alpha Code	140	ID	2/4
	Shipment Qualifier (B= Bill of Lading for Individual Shipment) Invoice Number (CN invoice Number) Shipment ID Number (Bill of Lading Number) Shipment Method of Payment (PP=prepaid) Invoice Date (YYYYMMDD) Net Amount Due	Shipment Qualifier 147 (B= Bill of Lading for Individual Shipment) Invoice Number 76 (CN invoice Number) Shipment ID Number 145 (Bill of Lading Number) Shipment Method of Payment 146 (PP=prepaid) Invoice Date 373 (YYYYMMDD) Net Amount Due 193	Shipment Qualifier 147 ID (B= Bill of Lading for Individual Shipment) Invoice Number 76 AN (CN invoice Number) Shipment ID Number 145 AN (Bill of Lading Number) Shipment Method of Payment 146 ID (PP=prepaid) Invoice Date 373 DT (YYYYMMDD) Net Amount Due 193 N2

C3 Segment: Currency

C3*USD

Ref. Des.	Name	Data Element	Attribu	tes
C301	Currency Code (USD=US Dollars)	100	ID	3/3

N9 Segment: Reference Identification

N9*WY*545497**20231126 N9*BM*291226**20231126

N9*GT*10076 8779 RT0001*GOODS AND SERVICES TAX REGISTRATION NUMBER N9*CT*CN 024091 19

N9*ZZ*1000043156 TQ 0514*QUEBEC SALES TAX REGISTRATION NUMBER

Ref. Des.	Name	Data Element	Attrib	utes
N901	Reference Number Qualifier (WY = waybill number) (BM = Bill of Lading number) (GT = GST Registration Number) (ZZ = QST Registration Number) (PA = Price application date) (CT=Contract Number)	128	ID	2/2
N902	Reference Identification	127	AN	1/30
N903	Free-Form Description	369	AN	1/45
N904	Date (YYYYMMDD)	373	DT	8/8

N1 Segment: Name

N1*PR*PAYER NAME*25*793585A N1*CN*CONSIGNEE*25*772305 N1*SF*SHIP FROM NAME*25*772305 N1*SH*SHIPPER NAME*25*793585

Ref. Des.	Name	Data Element	Attrib	utes
N101	Entity Identifier Code (CN = Consignee)	98	ID	2/3
	(SH = Shipper)			
	(PR = Payer)			
	(SF= Shipped From)			
N102	Name	93	AN	1/35
N103	Identification Code Qualifier	66	ID	1/2
	(25=Carrier's customer code)			
N104	Identification Code	67	AN	2/17
	(CN's assigned patron number)			

N3 Segment: Address Information

N3*123 NEWBRIDGE ROAD N3*1800 INKSTER BLVD N3*123 NEWBRIDGE RD N3*123 NEWBRIDGE RD

Ref. Des.	Name	Data Element	Attribu	ıtes	
N301	Address Information	166	AN	1/55	

N4 Segment: Geographic Location

N4*ETOBICOKE*ON N4*WINNIPEG SYMING YAR*MB*R2X2Z5 N4*ETOBICOKE*ON N4*BRAMPTON INTER TERM*ON

Name	Data Element	Attributes		
City Name	19	AN	2/19	
State/Province Code	156	ID	2/2	
Zip/Postal Code	116	ID	3/9	
	City Name State/Province Code	City Name 19 State/Province Code 156	City Name 19 AN State/Province Code 156 ID	City Name 19 AN 2/19 State/Province Code 156 ID 2/2

N7 Segment: Equipment Details

N7*UTLX*666955*187000*N*77500******RR*UTLX***0000*A****179**T107

Ref. Des.	Name	Data Element	Attrib	utes
N701	Equipment Initial	206	AN	1/4
N702	Equipment Number	207	AN	1/10
N703	Weight	81	R	1/10
N704	Weight Qualifier	187	ID	1/2
	(N = net weight)			
N705	Tare Weight	167	N0	3/8
N711	Equipment Description Code	40	ID	2/2
	(RR= railcar)			
N712	Standard Carrier Alpha Code	140	ID	2/4
N715	Equipment Length	567	N0	4/5
N716	Tare Qualifier Code	571	ID	1/1
	(A = actual)			
N720	Equipment Height	65	R	1/8
	(114 = 114 inches or 9 ft. 5 in.)			
N722	Equipment Type	24	ID	4/4
	(AAR Equipment Kind)			

LX Segment: Assigned Number

LX*1

Ref. Des.	Name	Data Element	Attributes		
LX01	Assigned Number (Number assigned for differentiation with	554 in a transaction set)	N0	1/6	

L5 Segment: Description, Marks, and Numbers

L5*1*COMPOUNDS, CLEANING, SCOURING OR WASHING, NEC,LI*2841920*T

Ref. Des.	Name	Data Element	Attribut	tes
L501	Line Number	213	N0	1/3
L502	Commodity Description	79	AN	1/50
L503	Commodity Code	22	AN	1/16
	(7-digit Standard Transportation Commodit	ty Code (STCC))		
L504	Commodity Code Qualifier	23	ID	1/1
(T = Standard Transportation Commodity Code (STCC))				

L0 Segment: Line Item - Quantity and Weight

L0*1***187000*N***1*TKR L0*1***1*N

Ref. Des.	Name	Data Element	Attributes		
L001	Lading Line-Item Number	213	N0	1/3	
L004	Weight	81	R	1/10	
L005	Weight Qualifier	187	ID	1/2	
	(N = Net Weight)				
L008	Lading Quantity	80	N0	1/7	
L009	Packaging Form Code	211	ID	3/3	
	(TKR=tank car)				

L1 Segment: Rate and Charges

L1*1*2510*PC*251000

L1*1*0.1980*PM*24433****ENS*******1234*MR

Ref. Des.	Name	Data Element	Attribu	tes			
L101	Lading Line Item Number	213	N0	1/3			
L102	Freight Rate	60	R	1/9			
L103	Rate/Value Qualifier	122	ID	2/2			
	(PU=per unit)						
	(PC=per car)						
	(PW=percentage)						
	(CT=charges based on percentage)						
	(PM=per miles)						
T 104	(MN=minimum charge)	5 0	210	1./0			
L104	Charge	58	N2	1/9			
L105	Advances	191	N2	1/9			
L106	Prepaid Amount	117	N2	1/9			
L108	Spec Charge/Allow Code	150	ID	3/3			
	(150=Canadian Currency Exchange)						
	(295=Discount-Special) (730=Terminal Service Fee)						
	(BLC=Bill of Lading Charge)						
	(BRD=Bridge Charge (PEI Confederation))						
	(CSE=Customs Entry)						
	(CUS=Customs Charge)						
	(DEL=Delivery Charge)						
	(DIV=Diversion and Re-consignment)						
	(DRC=Drayage)						
	(DSC=Discount Special)						
	(ENS=Fuel Surcharge)						
	(FLT=Ferry Service)						
	(GST=Goods and Services Tax Charge)						
	(HAZ=Hazardous Cargo Charge)						
	(HDF=Heavy Duty Flat Car Charge)						
	(HET=Heat in Transit Charges)						
	(HST=Harmonized Sales Tax)						
	(LDG=Loading)						
	(NHB=N.H. D Wharfage)						
	(PAD=Premium Charge) (PUD=Pick-Up and Delivery)						
	(REF=Refrigeration)						
	(SAJ=Surcharge - Dollar Value)						
	(SOC=Stop-Off Charge)						
	(SOC=Stop-Off Charge) (STC=State Surcharge)						
	(STC=State Surcharge) (STR=Storage in Transit)						
	(SWC=Switching Charge)						
	(TER=Terminal Charge)						
	(TTS=State Tax)						
	(USF=Use - Special Type Flat Car)						
	(TAD=Carbon Tax – BC (Also available as	default for all Ca	ırbon Tax))			
	(ENC=Carbon Tax – Alberta (Specific to Cl	N))					
	(CSK=Carbon Tax – Saskatchewan (Specif	ic to CN))					

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(CMB=Carbon Tax – Manitoba (Specific to CN))
(CON=Carbon Tax – Ontario (Specific to CN))
(CQQ=Carbon Tax – Quebec (Specific to CN))
(CNB=Carbon Tact – New Brunswick (Specific to CN))
(CNS=Carbon Tax – Nova Scotia (Specific to CN))

L117 Billed/Rated-as Quantity 220 NO 1/11
L118 Billed/Rated-As Qualifier 221 ID 1/2
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L7 Segment: Tariff Reference

L7*1*CN*123456**1050000

Ref. Des.	Name	Data Element	Attribu	tes
L701	Lading Line Item Number	213	NO	1/3
L702	Tariff Agency Code	168	ID	1/4
L703	Tariff Number	171	AN	1/7
L704	Tariff Section	172	AN	1/2
L705	Tariff Item Number	169	AN	1/16

L3 Segment: Total Weight and Charges

L3*187000*N***275433****0*E

Ref. Des.	Name	Data Element	Attrib	utes		
L301	Weight	81	R	1/10		
L302	Weight Qualifier (N=net weight)	187	ID	1/2		
L303	Freight Rate	60	R	1/9		
L304	Rate/Value Qualifier	122	ID	2/2		
L305	Charge	58	N2	1/9		
L306	Advances	191	N2	1/9		
L308	Spec Charge/Allow Code	150	ID	3/3		
2000	(150=Canadian Currency Exchange)	100		0,0		
	(295=Discount-Special)					
	(730=Terminal Service Fee)					
	(BLC=Bill of Lading Charge)					
	(BRD=Bridge Charge (PEI Confederation))	ı				
	(CSE=Customs Entry)					
	(CUS=Customs Charge)					
	(DEL=Delivery Charge)					
	(DIV=Diversion and Re-consignment)					
	(DRC=Drayage)					
	(DSC=Discount Special)					
	(ENS=Fuel Surcharge)					
	(FLT=Ferry Service)					
	(GST=Goods and Services Tax Charge)					
	(HAZ=Hazardous Cargo Charge)					
	(HDF=Heavy Duty Flat Car Charge)					
	(HET=Heat in Transit Charges)					
	(HST=Harmonized Sales Tax)					
	(LDG=Loading)					
	(NHB=N.H. D Wharfage)					
	(PAD=Premium Charge)					
	(PUD=Pick-Up and Delivery)					
	(REF=Refrigeration)					
	(SAJ=Surcharge - Dollar Value)					
	(SOC=Stop-Off Charge)					
	(STC=State Surcharge)					
	(STR=Storage in Transit)					
	(SWC=Switching Charge)					
	(TER=Terminal Charge)					
	(TTS=State Tax)					
	(USF=Use - Special Type Flat Car)					
	(TAD=Carbon Tax – BC (Also available as default for all Carbon Tax))					
	(ENC=Carbon Tax – Alberta (Specific to CN))					
	(CSK=Carbon Tax – Saskatchewan (Specific to CN))					
	(CMB=Carbon Tax – Manitoba (Specific to CN))					
	(CON=Carbon Tax – Ontario (Specific to C					
	(CQQ=Carbon Tax – Quebec (Specific to C					
	(CNB=Carbon Tact – New Brunswick (Spe					
	(CNS=Carbon Tax – Nova Scotia (Specific	to CN))				

SE Segment: Transaction Set Trailer

SE*30*340001

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

GE Segment: Functional Group Trailer

GE*1*340

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

IEA Segment: Interchange Control Trailer

IEA*1*00000340

Ref. Des.	Name	Data Element Attributes		
IEA01	Number of included Functional Groups	I16	NO 1/5	
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0 9/9	