

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 <u>http://www.cn.ca</u> 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 <u>https://mftedi.cn.ca/</u> 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 www.cn.ca. You can also visit us at https://www.cn.ca/en/customer-centre/tools/edi/

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 <u>EDIMGR@cn.ca</u> 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 *250128*0035*U*00401*000000340*0*P*> GS*IM*CN*RECEIVERID*20250128*0035*340*X*004010 ST*210*340001 B3*B*28066945*291226*PP**20250128*275433****CNRU C3*USD N9*WY*545497**20250126 N9*BM*291226**20250126 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

*02*CN ISA*00* *00* *ZZ*RECEIVERID *250128*0035*U*00201*000000612*0*P*> GS*IM*CN*RECEIVERID*20250128*0035*612*X*004010 ST*210*612001 B3*B*28061234*102141*PP**20250128*208360****CNRU C3*CAD N9*WY*557171**20250127 N9*BM*102141**20250127 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

*02*CN

ISA*00* *00*

*ZZ*RECEIVERID *250128*0035*U*00401*000000340*0*P*>

Ref. Des.	Name	Data Element	Attribu	tes
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 (02=SCAC)	105	ID	2/2
ISA06	Interchange Sender ID (CN – fill out rest of field with spaces)	I06	AN	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	105	ID	2/2
ISA08	Interchange Receiver ID (RECEIVERID - fill out rest of field with s	I07 paces)	AN	15/15
ISA09		108	DT	6/6
ISA10	Interchange Time (HHMM)	109	ТМ	4/4
ISA11	Repetition Separator (Suggest "^")	I65		1/1
ISA12	Interchange Control Version Number (Value 00401)	I11	ID	5/5
ISA13	Interchange Control Number (a control number assigned by CN)	I12	N0	9/9
ISA14		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*IM*CN*RECEIVERID*20250128*0035*340*X*004010

Ref. Des.	Name	Data Element	Attribu	tes
GS01	Functional Identifier Code	479	ID	2/2
	(IM= Motor Carrier Freight Details and Invo	pice (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)	1		
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	Attribu	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**20250128*275433****CNRU

Ref. Des.	Name	Data Element	Attribut	ies
B301	Shipment Qualifier	147	ID	1/1
	(B= Bill of Lading for Individual Shipment)			
B302	Invoice Number	76	AN	1/22
	(CN invoice Number)			
B303	Shipment ID Number	145	AN	1/30
	(Bill of Lading Number)			
B304	Shipment Method of Payment	146	ID	2/2
	(PP=prepaid)			
B306	Invoice Date	373	DT	8/8
	(YYYYMMDD)			
B307	Net Amount Due	193	N2	1/12
B311	Standard Carrier Alpha Code	140	ID	2/4

C3 Segment: Currency

C3*USD

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

N9 Segment: Reference Identification

N9*WY*545497**20250126 N9*BM*291226**20250126 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	Attribu	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	Attribu	utes
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (PR = Payer) (SF= Shipped From)	98	ID	2/3
N102	Name	93	AN	1/35
N103	Identification Code Qualifier (25=Carrier's customer code)	66	ID	1/2
N104	Identification Code (CN's assigned patron number)	67	AN	2/17

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	tes			
N301	Address Information	166	AN	1/55			
<u>N4 Se</u>	N4 Segment: Geographic Location						
N4*ETOBICOKE*ON N4*WINNIPEG SYMING YAR*MB*R2X2Z5 N4*ETOBICOKE*ON N4*BRAMPTON INTER TERM*ON							
Ref. Des.	Name	Data Element	Attributes				
N401 N402 N403	City Name State/Province Code Zip/Postal Code	19 156 116	AN ID ID	2/19 2/2 3/9			

N7 Segment: Equipment Details

Name	Data Element	Attribu	tes
Equipment Initial	206	AN	1/4
Equipment Number	207	AN	1/10
Weight	81	R	1/10
Weight Qualifier	187	ID	1/2
(N = net weight)			
Tare Weight	167	N0	3/8
Equipment Description Code	40	ID	2/2
(RR= railcar)			
Standard Carrier Alpha Code	140	ID	2/4
Equipment Length	567	N0	4/5
Tare Qualifier Code	571	ID	1/1
(A = actual)			
Equipment Height	65	R	1/8
(114 = 114 inches or 9 ft. 5 in.)			
Equipment Type	24	ID	4/4
(AAR Equipment Kind)			
	Equipment Initial Equipment Number Weight Weight Qualifier (N = net weight) Tare Weight Equipment Description Code (RR= railcar) Standard Carrier Alpha Code Equipment Length Tare Qualifier Code (A = actual) Equipment Height (114 = 114 inches or 9 ft. 5 in.) Equipment Type	Equipment Initial206Equipment Number207Weight81Weight Qualifier187(N = net weight)167Tare Weight167Equipment Description Code40(RR= railcar)Standard Carrier Alpha CodeStandard Carrier Alpha Code140Equipment Length567Tare Qualifier Code571(A = actual)65Equipment Height65(114 = 114 inches or 9 ft. 5 in.)24	Equipment Initial206ANEquipment Number207ANWeight81RWeight Qualifier187ID $(N = net weight)$ 167N0Tare Weight167N0Equipment Description Code40ID $(RR= railcar)$ Standard Carrier Alpha Code140Standard Carrier Alpha Code567N0Tare Qualifier Code571ID $(A = actual)$ Equipment Height65R $(114 = 114 inches or 9 \text{ ft. 5 in.})$ Equipment Type24ID

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

LX Segment: Assigned Number

LX*1

Ref. Des.	Name	Data Element	Attribut	tes
LX01	Assigned Number	554	N0	1/6
	(Number assigned for differentiation within a transaction set)			

L5 Segment: Description, Marks, and Numbers

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

Ref. Des.	Name	Data Element	Attribu	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 Commodity 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	Attribu	tes
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
2100	(PU=per unit)		12	_, _
	(PC=per car)			
	(PW=percentage)			
	(CT=charges based on percentage)			
	(PM=per miles)			
	(MN=minimum charge)			
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)			
	(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		rbon Tax	.))
	(ENC=Carbon Tax – Alberta (Specific to C			
	(CSK=Carbon Tax – Saskatchewan (Specif	to CN))		

	(CMB=Carbon Tax – Manitoba (Spec	ific to CN))		
	(CON=Carbon Tax - Ontario (Specifi	c to CN))		
	(CQQ=Carbon Tax - Quebec (Specifi	c to CN))		
	(CNB=Carbon Tact – New Brunswick (Specific to CN))			
	(CNS=Carbon Tax – Nova Scotia (Sp	pecific to CN))		
L117	Billed/Rated-as Quantity	220	NO	1/11
L118	Billed/Rated-As Qualifier	221	ID	1/2

<u>L7 Segment: Tariff Reference</u>

L7*1*CN*123456**1050000

Ref. Des.	Name	Data Element	Attributes	
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	Attributes	
L301	Weight	81	R	1/10
L302	Weight Qualifier	187	ID	1/2
	(N=net weight)		_	
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
	(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=Diayage) (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)		1 7	
	(TAD=Carbon Tax – BC (Also available as		roon Lax	.))
	(ENC=Carbon Tax – Alberta (Specific to CN))			
	(CSK=Carbon Tax – Saskatchewan (Specifi (CMB=Carbon Tax – Manitoba (Specific to			
	(CON=Carbon Tax – Maintoba (Specific to C			
	(CQQ=Carbon Tax – Quebec (Specific to C			
	(CNB=Carbon Tact – New Brunswick (Spec			
	(CNS=Carbon Tax – Nova Scotia (Specific			
	(cris-curson rux riova scolia (specific			

SE Segment: Transaction Set Trailer

SE*30*340001

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

GE Segment: Functional Group Trailer

GE*1*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	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	9/9