

eBusiness Implementation Guide

Shipment Status Message

EDI Format: 214

Version: 4010

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Contact: eBusiness@cn.ca



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Overview

Purpose

CN provides the EDI 214 to customers to advise them of events reported for their shipments. Customers may select which events are to be included in their EDI 214 from a list of over twenty events that are reported in CN's Service Reliability Strategy (SRS) system.

EDI Versions & Guidelines

Three versions, 004010, 003040 and 003030 are supported. All closely comply with the official published Motor Carrier Industry Guide to Electronic Data Interchange Implementation and Conventions. This guide documents version 004010, which is the current version available. Prior versions can be made available upon special request.

Customized Formats

The Receiver of the 214 who requires coding or mapping structure other than expressly written in the Guidelines and in the CN Implementation documents to have the necessary changes performed at their system or through a Value Added Network.

CN Contact

Telephone CN Customer Information Services at 1-800-361-0198.
CN provides an electronic-mail address for customers to provide updates for tables such as Transmission Scheduling Change Requests and for other information and inquiries. The CN Electronic Customer Solutions email address is eBusiness@cn.ca.

Schedule

Schedules to automate the output at times convenient to your business process are available. Each event that has occurred since the last transmission will be sent. The CN EDI Scheduler provides flexible production times for the 214. The 214 can be produced up to a maximum of 4 6 times per day in ½ hour intervals except for 2:00 and 2:30, or a minimum of once per week.

Client Profile Set Up

Client Profile - Shipment Status (DE 1650)

The Shipment Status messages are controlled in a Client Profile, which can be updated at any time upon request.

You may select which shipment status events are to be included in the EDI 214. At least one event must be included.

You will also receive both CN reported events and those of our partner railroads. However not all events are available from partner roads and reporting may be a little delayed.

The CN EDI 214 provides both Carload and Intermodal Shipment Status Events:

Event	Event Code	CN Events		Partner Events	
		Carload	Intermodal	Carload	Intermodal
Actual Placement	S1	✓		✓	
Released Loaded by Customer	CP	✓	✓	✓	✓
Departed Customer	AF	✓	✓	✓	✓
In-Gate	II		✓		✓
Rail Departure from Origin Intermodal Ramp	RL		✓		
Depart Terminal Location	P1	✓	✓		
Arrived at Terminal Location	X4	✓	✓	✓	✓
Delivered to Connecting Carrier	J1	✓	✓	✓	✓
Received from Prior Carrier	R1	✓	✓	✓	✓
Rail Arrival at Destination Intermodal Ramp	AR		✓		✓
Arrival at Destination	AR	✓		✓	

Notify – Shipment Available for Pick Up	AV	✓	✓	✓	✓
Tendered for Delivery	AJ		✓		
Out-Gate	OA		✓		✓
Arrived at Customer	X5		✓		
Placed for Unloading at Customer Location	S1		✓		✓
Actual Placement	S1	✓		✓	
Completed Unloading at Delivery Location	D1		✓		
Released Empty by Customer	CD		✓		✓
Released Empty by Customer	D1	✓		✓	
Rejected	A7	✓	✓		
ETA	AG	✓		✓	
ETA	X2		✓		✓

Client Profile - Attributes

An attribute allows you to either include or exclude the following information from your EDI 214 message:

- N1 Loop segments
- Origin and Destination Intermodal Ramp
- Train I.D.
- Pick up Number
- Route Information
- Estimated Time of Arrival
- Shippers Purchase Order Number

N1 Loop segment

The default is to include N1, N3 and N4 segments for parties on your bill of lading.

Origin and Destination Intermodal Ramp

The Origin Intermodal Ramp (RO), Destination Intermodal Ramp (RD), Intermodal Terminal Name, SPLC Identifier (20) and SPLC of the intermodal

terminal will be included in two N1 segments. The default is to not show the RO and RD segments.

Train I.D.

The Train ID for all Train Arrival and Train Departure events will be included in an L11 segment. The default is the segment won't be included.

Note: The L11 02 Reference Qualifiers commonly reported by CN are:

HR	BILL OF LADING NUMBER
7W	TRAIN IDENTIFICATION
PO	PURCHASE ORDER NUMBER
SO	SHIPPER'S ORDER (INVOICE NO)
WY	RAIL WAYBILL NUMBER
P8	PICKUP REFERENCE NUMBER
SI	SHIPPER'S IDENTIFYING NO FOR SHIPMENT (SID)

For a complete list, refer to X12 standards Data Element 128.

Pick Up Number

The pick up number will be included in an L11 segment with a P8 qualifier. The default is the pickup number is not included.

Route Information

The default is to include routing information in the MS3 segments.

Estimated Time of Arrival

You can request the Estimated Time of Arrival (ETA), updated with each event. This will appear in a second AT7 line directly beneath the first AT7 line containing the Shipment Status code. X2 = Intermodal ETA and AG = Carload ETA. The default is to not include the ETA.

Shippers Purchase Order Number

The shipper's purchase order number will be displayed in an SPO segment. The default is not to have this segment included.

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

Example EDI 214 Output

```
ISA*00**00**02*CN*02*ABCINTER*990828*1016*U*00200*
000001275*0*P*>GS*QM*CN*ABCINTER*19990827*0945*
36*X*004010ST*214*36001B10*363100*NNS3355*CNL11*
14527*7W
N1*SH*ABC INTERNATIONAL CORP
N3*200 RENE LEVESQUE BOUL
N4*MONTREAL*PQ*H3G3T3*CNN1*CN*ABC
INTERNATIONAL CORP
N3*29 CENTENNIAL ROAD
N4*ORANGEVILLE*ON*M3F5K7*CN
N1*RO*MONTREAL MONTER INT*20*030805
N1*RD*BRAMPTON INTER
TERM*20*044761MS3*CN*O**XLX*1AT7*I1*NS***1999082
6*1430
AT7*X2*NS***19990902*1230MS1*MONTREAL MONTER
INT*PQ*CNMS2*CNRU*750154AT8*N*L*4500**1000SE*16*36001
GE*1*36*
IEA*1*000001275
```


EDI 214 Mapping Table

The following section outlines how to interpret the above example, and provides details on other data segments.

ISA*00**00**02*CN*02*ABCINTER*990828*1016*U*00200*000001275*0*P*>

ISA – Interchange Control Header				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Authorisation Information Qualifier	ISA01	2/2/ID	Authorisation Information Qualifier	00
Authorisation Information	ISA02	10/10/AN	Authorisation Information	
Security Information Qualifier	ISA03	2/2/ID	Security Information Qualifier	00
Security Information	ISA04	10/10/AN	Security Information	
Interchange ID Qualifier	ISA05	2/2/ID	Interchange ID Qualifier	02
Interchange Sender ID	ISA06	15/15/ID	Interchange Sender ID	CN
Interchange ID Qualifier	ISA07	2/2/ID	Interchange ID Qualifier	02
Interchange Receiver ID	ISA08	15/15/ID	Interchange Receiver ID	ABCINTER
Interchange Date	ISA09	6/6/DT	Interchange Date	000811
Interchange Time	ISA10	4/4/TM	Interchange Time	1016
Interchange Control Standards Identifier	ISA11	1/1/ID	Interchange Control Standards Identifier	U
Interchange Control Version Number	ISA12	5/5/ID	Interchange Control Version Number	00200
Interchange Control Number	ISA13	9/9/NO	Interchange Control Number	000001275
Acknowledgement Requested	ISA14	1/1/ID	Acknowledgement Requested	0
Test Indicator	ISA15	1/1/ID		P
Subelement Separator	ISA16	1/1/AN		>

GS*QM*CN*ABCINTER*19990827*0945*36*X*004010

GS – Group Header				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Message Type	GS01	2/2/ID		QM
Sender Code	GS02	2/15/AN		CN
Receiver Code	GS03	2/15/AN		ABCINTER
Transmission Date	GS04	8/8/DT	YYYYMMDD	19990827
Transmission Time	GS05	4/4/TM	HHMM	0945
Control Number	GS06	1/9/NO	Number	36
Standard Type	GS07	1/2/ID	ANSI Code	X
Version /Release	GS08	1/12/ID	Number	004010

ST*214*36001

ST - Transaction Set Header				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Transaction Set Identifier Code	ST01	3/3/ID	Number	214
Transaction Set Control No.	ST02	4/9/AN	Number	36001

B10*363100*NNS*CN

B10 - Beginning Segment for Shipment Status Message				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Reference ID	B10 01	1/30/AN	Waybill No. or unit/init number concatenated if no waybill	363100
Shipment ID No.	B10 02	1/30/AN	Shipment ID Number	NNS3355
SCAC	B10 03	2/4/ID	CN	CN

L11* 14527*7W

L11 - Business Instructions and Reference Number				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Reference I.D.	L11 01	1/30/AN	Interchange Train ID, Bill of Lading Number, Pickup Number, etc.	14527
Reference I.D. Qualifier	L11 02	2/3/ID	See Data Element 128 7W = Train I.D.	7W

Loop N1 Loop ID - 0100

N1*SH*ABC INTERNATIONAL CORP

N1 - Name				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Entity I.D. Code	N1 01	2/3/ID	Entity I.D. Code	SH
Name	N1 02	1/60/AN	Customer Name	ABC INTERNATIONAL CORP
ID Code Qualifier	N1 03	1/2/ID	20=SPLC	
ID Code	N1 04	2/80/AN	SPLC	

N3*200 RENE LEVESQUE BOUL

N3 – Address Information				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Address Information	N3 01	1/55/AN	Address Information	200 RENE LEVESQUE BOUL

N4*MONTREAL*PQ* H3G3T3*CN

N4 – Geographic Location				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
City Name	N4 01	2/30/AN	City Name	MONTREAL
State or Province	N4 02	2/2/ID	State or Province	PQ
Postal Code / ZIP Code	N4 03	3/15/ID	Postal or Zip code	H3G3T3
Country Code	N4 04	2/3/ID	Country Code	CN

N1*CN*CANADIAN TIRE CORP LTD

N1 – Name				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Entity I.D. Code	N1 01	2/3/ID	Entity I.D. Code	CN
Name	N1 02	1/60/AN	Customer Name	ABC INTERNATIONAL CORP
ID Code Qualifier	N1 03	1/2/ID	20=SPLC	
ID Code	N1 04	2/80/AN	SPLC	

N3*29 CENTENNIAL ROAD

N3 – Address Information				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Address Information	N3 01	1/55/AN	Address Information	29 CENTENNIAL ROAD

N4*ORANGEVILLE*ON* M3F5K7*CN

N4 – Geographic Location				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
City Name	N4 01	2/30/AN	City Name	ORANGEVILLE
State or Province	N4 02	2/2/ID	State or Province	ON
Postal Code / ZIP Code	N4 03	3/15/ID	Postal or Zip code	M3F5K7
Country Code	N4 04	2/3/ID	Country Code	CN

N1*RO*MONTREAL MONTER INT*20*030805

N1 – Origin Intermodal Ramp				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Entity I.D. Code	N1 01	2/3/ID	Origin Intermodal Ramp	RO
Intermodal Terminal Name	N1 02	1/60/AN	Station Name	MONTREAL MONTER INT
ID Code Qualifier	N1 03	1/2/ID	20=SPLC	20
ID Code	N1 04	2/80/AN	SPLC	030805

N1*RD*BRAMPTON INTER TERM*20*

N1 – Destination Intermodal Ramp				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Entity I.D. Code	N1 01	2/3/ID	Destination Intermodal Ramp	RD
Intermodal Terminal Name	N1 02	1/60/AN	Station Name	BRAMPTON INTER TERM
ID Code Qualifier	N1 03	1/2/ID	20=SPLC	20
ID Code	N1 04	2/80/AN	SPLC	044761

MS3*CN*O**X

MS3 – Route Information				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Standard Carrier Code	MS3 01	2/4/ID	Reporting Road SCAC	CN
Routing Sequence Code	MS3 02	1/2/ID	Routing Sequence Code	0
City Name	MS3 03	2/30/AN	Interchange City	
Transport Type Code	MS3 04	1/2/ID	R= Rail, J= Motor, S= Ocean, X= Intermodal	X
State or Province Code	MS3 05	2/2/ID	Province or State of Interchange City	

LX*1

Loop LX Loop ID – 0200				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Assigned Number	LX 01	1/6/NO	Assigned Numbers	1

AT7*I1*NS***19990826*1430

Loop AT7 Loop ID – 0205				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Shipment Status Code	AT7 01	2/2/ID	Event code from Data Element 1650	I1
Shipment Status or Appointment Reason Code	AT7 02	2/2/ID	Status Reason Code from Data Element 1651	NS (Normal Status)
Shipment Appointment Status Code	AT7 03	2/2/ID	Appointment Status Code from Data Element 1652	
Shipment Status or Appointment Reason Code	AT7 04	2/2/ID	Status or Appointment Reason Code from Data Element 1651	
Date	AT7 05	8/8/DT	Event Date	19990826
Time	AT7 06	4/8/TM	Event Time	1430

AT7*X2*NS***19990902*1230

Loop AT7 Loop ID - 0205 - ETA				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Shipment Status Code	AT7 01	2/2/ID	Event code from Data Element 1650	X2
Shipment Status or Appointment Reason Code	AT7 02	2/2/ID	Status Reason Code from Data Element 1651	NS (Normal Status)
Shipment Appointment Status Code	AT7 03	2/2/ID	Appointment Status Code from Data Element 1652	
Shipment Status or Appointment Reason Code	AT7 04	2/2/ID	Status or Appointment Reason Code from Data Element 1651	
Date	AT7 05	8/8/DT	Event Date	19990902
Time	AT7 06	4/8/TM	Event Time	1230

MS1*MONTREAL MONTER INT*PQ*CN

MS1 - Equipment Shipment or Real Property Location				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
City Name	MS1 01	2/30/AN	Event Location City Name	MONTREAL MONTER INT
State or Province Code	MS1 02	2/2/ID	Event Location Province/State	PQ
Country Code	MS1 03	2/3/ID	Country Code	CN

MS2*CNRU*750154

MS2 - Equipment or Container Owner and Type				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Standard Carrier Alpha Code	MS2 01	2/4/ID	Equipment Initial	CNRU
Equipment Number	MS2 02	1/10/AN	Equipment Number	750154

AT8*N*L*4500**1000

AT8 – Shipment Weight, Packaging and Quantity				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Weight Qualifier	AT8 01	1/2/ID	N=Net Weight	N
Weight Unit Code	AT8 02	1/1/ID	L=Pounds, K=Kilograms	L
Weight	AT8 03	1/10/R	Weight	4500
Lading Quantity	AT8 05	1/7/NO	Number of Pieces	1000

SE*13*36001

SE – Transaction Set Trailer				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Number of Included Segments	SE 01	1/10/NO	Number of included segments	13
Transaction Set Control Number	SE 02	4/9/AN	Transaction Set Control Number	36001

GE*3*36

GE – Functional Group Trailer				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Number of Transaction Sets Included	GE 01	1/10/NO	Number of Transaction Sets Included	3
Group Control Number	GE 02	1/9/NO	Group Control Number	36

IEA*1*000001275

IEA – Interchange Control Trailer				
Element Name	Element Code	Format (min / max / data)	Values	Example Data
Number of Included Groups	IEA01	1/5/NO	Number of GS-GE groups	1
Interchange Control No.	IEA02	9/9/NO	Interchange Control No.	000001275

Appendices

CN Intermodal Terminals and Ports

The following lists CN Intermodal Terminals and Ports Operations that can be an origin and destination on CN lines. Non rail points can also be an origin or destination for door to door service.

D/K	SPLC	Station Abbr. 633	St/Pr	Full Station Name
0102	118443	AUBINTTER	ME	AUBURN INTER TERM
0403	141260	AYEINTTER	MA	AYER INTERMODAL TER
01535	044761	BRAINTTER	ON	BRAMPTON INTER TERM
12200	082494	CALINTTER	AB	CALGARY INTER TERM
3901	380002	CHIINTTER	IL	CHICAGO INTER TERM
15231	008806	CORBROINT	NF	CORNER BROOK INTERM
3903	549260	COUBLUFFS	IA	COUNCIL BLUFFS
3801	315986	DETINTTER	MI	DETROIT INTER TERM
80101	085646	EDMINTTER	AB	EDMONTON INTER TERM
13841	012548	FAICOVIMP	NS	FAIRVIEW COVE IMPEX
12493	093614	FRASURIMP	BC	FRASER SURREY IMPEX
3907	543630	FTDODGE	IA	FT DODGE
13841	012504	HALHALTER	NS	HALIFAX HALTERM TER
13841	012500	HALIFAX	NS	HALIFAX
13841	012501	HALINTTER	NS	HALIFAX INTER TERM
2015	487230	JACKSON	MS	JACKSON
2006	439900	MEMPHIS	TN	MEMPHIS
01535	044716	MISINTSER	ON	MISSISSAUGA INT SER
1901	479800	MOBILE	AL	MOBILE
01822	030313	MONBICKER	PQ	MONTREAL BICKERDIKE
13400	015289	MONINTTER	NB	MONCTON INTER TERM
01822	030805	MONMONINT	PQ	MONTREAL MONTER INT
01822	030318	MONRACTER	PQ	MONTREAL RACINE TER
80103	074040	MOOJAW	SK	MOOSE JAW
2002	647000	NEWORLEAN	LA	NEW ORLEANS
15200	008998	PTBASQUES	NF	PORT AUX BASQUES
80103	070156	REGINTTER	SK	REGINA INTER TERM
12493	093804	ROBBANK	BC	ROBERTS BANK
80103	072420	SASINTTER	SK	SASKATOON INTER TER
14428	016004	STJOHIMPE	NB	SAINT JOHN IMPEX
15282	008102	STJOHINTT	NF	ST JOHNS INTER TERM

01535	043234	TORCONINT	ON	TORONTO CONPORT INT
12493	093932	VANCENPIE	BC	VANCOUVER CENT PIER
12493	093929	VANIMPEX	BC	VANCOUVER IMPEX
12493	093696	VANINTTER	BC	VANCOUVER INTER TER
12493	093934	VANVANter	BC	VANCOUVER VANTERM
4503	396298	VENICE	IL	VENICE
3907	532730	WATERLOO	IA	WATERLOO
80102	061209	WININTTER	MB	WINNIPEG INTER TERM

Intermodal Service Codes

Code	Equipment Owner	Service	Note: International versus Domestic
15	Motor Carrier	Ramp to Ramp	
20	Rail Carrier	Door to Door	
22	"	Door to Ramp	
25	"	Ramp to Ramp	
27	"	Ramp to Door	
40	SS Line - Domestic	Door to Door	Domestic containers movements
42	"	Door to Ramp	without prior or subsequent
45	"	Ramp to Ramp	waterborne movement. Applies
47	"	Ramp to Door	to US/Canada/Mexico traffic.
			Equipment supplied by stack
			operation or steamship Line.
60	Patron / Customer	Door to Door	
62	"	Door to Ramp	
65	"	Ramp to Ramp	
67	"	Ramp to Door	
80	SS Line - IMPEX	Door to Door	International shipments with
82	"	Door to Ramp	prior or subsequent waterborne
85	"	Ramp to Ramp	movement. Includes Alaska,
87	"	Ramp to Door	Hawaii, Puerto Rico. Equipment
			supplied by stack operation or
			steamship Line.