

Implementation Guide to
Shipment Status Message

EDI 214

Version 004010



Overview

Purpose of Shipment Status Message 214

This EDI 214 Shipment Status Message provides timely reported events and estimated times of arrival of your shipments from CN's Service Reliability Strategy (SRS) system.

EDI Version & Guidelines

This Shipment Status Message 214, version 004010, closely complies with the official published Motor Carrier Industry Guide to Electronic Data Interchange Implementation and Conventions.

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.

Connection to CN

CN has a secure MFT server edimft.cn.ca or we can push to an FTP server if you require. CN also connects with all major VAN's (Value Added Networks) and interconnects can be made available.

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 46 times per day in ½ hour intervals except for 2:00 and 2:30, or a minimum of once per week.

CN Contact

CN provides an email address for customers to provide updates for tables such as Transmission Scheduling Change Requests and for other information and inquiries. The Customer Support Team email address is EDIMGR@cn.ca. You can also visit us at www.cn.ca.

Client Profile Set Up

Client Profile - Status Code (DE 1650)

The Shipment Status messages are controlled by CN in a Client Profile, which can be updated at any time upon request. The codes are found in the AT7 01 segment.

You may select which Status Codes are to be included in your Shipment Status Message. At least one event must be included.

The CN's EDI 214 provides the following Intermodal Status Codes:

Event	Event Code in 214	Carload	Intermodal
In gate	I1		X
Out gate	OA		X
Actual placement	S1	X	
Arrived at customer	X5		X
Placed for loading	X3		X
Placed for unloading	X1		X
Released loaded	CP	X	X
Released empty	CD		X
Released empty	D1	X	
Release reject	A7	X	
Departed customer	AF	X	X
Rail depart origin ramp	RL		X
Rail departure	P1	X	X
Rail arrival destination ramp	AR		X
Rail arrival	X4	X	X
Delivered to connecting carrier	J1	X	X
Received from prior carrier	R1	X	X

Notify – shipment available for pickup	AV	X	X
De ramped at destination	AV		X
Delivery appointment made	AB		X
Bad order	SD	X	X
ETA (attribute must be turned on)	AG	X	
ETA (attribute must be turned on)	X2		X

Client Profile - Attributes

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

N1 loop segments
Origin and Destination Intermodal Ramp
Train ID
Pick up Number
Route information
Estimated Time of Arrival
Shippers Purchase Order number
Local or Universal Time

N1 loop segments

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

Origin and Destination Intermodal Ramp – for intermodal shipments only

If you select this attribute, the Origin Intermodal Ramp (RO), Destination Intermodal Ramp (RD), Intermodal Terminal Name, SPLC Identifier (20) and SPLC of the intermodal terminal will be provided in two N1 segments. The default is to not show the RO and RD segments.

Train ID

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.

Pick Up Number – for intermodal shipments only

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 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. AT7*X2 is the ETA for intermodal shipments and AT7*AG is the ETA for carload shipments.

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

Local or Universal Time

The default is the Universal Time coordinate. If you select this attribute, Local time will be provided.

Shipment Status Mapping Guide

This section contains the details of how the Shipment Status message will be formatted.

Example Shipment Status Message Output

ISA*00* *00* *02*CN *02*ABCINTER
*180112*1454*U*00401*000001275*0*P*>
GS*QM*CN*ABCINTER*20180112*1454*36*X*004010
ST*214*36001
B10*363100*NNS3355*CN
L11*Q13151 10*7W
N1*SH*ABC INTERNATIONAL CORP
N3*200 RENE LEVESQUE BOUL
N4*MONTREAL*PQ*H3G3T3*CA
N1*CN*ABC INTERNATIONAL CORP
N3*29 CENTENNIAL ROAD
N4*ORANGEVILLE*ON*M3F5K7*CA
N1*RO*MONTREAL MONTER INT*20*030805
N1*RD*BRAMPTON INTER TERM*20*044761
MS3*CN*O**X
LX*1
AT7*I1*NS***20180112*1430
AT7*X2*NS***20180115*1230
MS1*MONTREAL TASCHE YARD *PQ*CA
MS2*CNRU*750154
AT8*N*L*4500**1000
SE*16*36001
GE*1*36
IEA*1*000001275

ISA Segment: Interchange Control Header

ISA*00* *00* *02*CN *02*ABCINTER *180112*1454*U*00401*000001275*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 (CN - fill out field with spaces)	I06	ID	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID	2/2
ISA08	Interchange Receiver ID (ABCINTER - fill out field with spaces)	I07	ID	15/15
ISA09	Interchange Date (YYMMDD)	I08	DT	6/6
ISA10	Interchange Time (HHMM)	I09	TM	4/4
ISA11	Repetition Separator (Suggest “^”)	I10	ID	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	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	AN	1/1

GS Segment: Functional Group Header

GS*QM*CN*ABCINTER*20180112*1454*36*X*004010

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
GS01	Functional Identifier Code (QM=Transportation Carrier Shipment Status Message (214)	479	ID	2/2
GS02	Application Sender's Code (CN=Canadian National)	142	AN	2/15
GS03	Application Receiver's Code	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 CN)	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	ID	1/12

ST Segment: Transaction Set Header

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

ST*214*36001

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
ST01	Transaction Set Identifier Code (214 = Transportation Carrier Shipment Status Message)	143	ID	3/3
ST02	Transaction Set Control Number (Sequential control number generated by CN)	329	AN	4/9

B10 Segment: Beginning Segment for Shipment Status Message

B10*363100*NNS3355*CN

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
B1001	Reference Identification (363100= waybill number)	127	AN	1/30
B1002	Shipment Identification Number (NNS3355= shipment ID number)	145	AN	1/30
B1003	Standard Carrier Alpha Code (SCAC)	140	ID	2/4

L11 Segment: Business Instructions and Reference Number

L11*Q13151 10*7W

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L1101	Reference Identification (Q13151 10=train ID)	127	AN	1/30
L1102	Reference Identification Qualifier (7W=train ID HR=bill of lading number PO=purchase order number SO=shipper's order number WY=waybill number P8=pickup number)	128	ID	2/3

Loup N1 Loup ID - 0100

N1 Segment: Name

**N1*SH*ABC INTERNATIONAL CORP
N3*200 RENE LEVESQUE BOUL
N4*MONTREAL*PQ*H3G3T3*CA
N1*CN*ABC INTERNATIONAL CORP
N3*29 CENTENNIAL ROAD
N4*ORANGEVILLE*ON*M3F5K7*CA**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper)	98	ID	2/3
N102	Name	93	AN	1/60

N3 Segment: Address

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N301	Address Information	166	AN	1/55

N4 Segment: City

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N401	City Name	19	AN	2/30
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/15
N404	Country Code	26	ID	2/3

N1 Segment: Name

N1*RO*MONTREAL MONTER INT*20*030805
N1*RD*BRAMPTON INTER TERM*20*044761

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (RO=origin ramp RD= destination ramp)	98	ID	2/3
N102	Name (Name of intermodal terminal)	93	AN	1/60
N103	Identification code Qualifier (20=SPLC)	66	ID	1/2
N104	Identification Code (SPLC code)	67	AN	2/80

MS3 Segment: Interline Information

MS3*CN*OX**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
MS301	Standard Carrier Alpha Code	140	ID	2/4
MS302	Routing Sequence Code (O=origin carrier)	133	ID	1/2
MS304	Transportation Method/Type Code (X=intermodal R=rail)	91	ID	1/2

LX Segment:**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

AT7 Segment: Shipment Status Details**AT7*I1*NS***20180112*1430****AT7*X2*NS***20180115*1230**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
AT701	Shipment Status Code (I1=ingate X2=ETA)	1650	ID	2/2
AT702	Shipment Status or Appointment Reason Code (NS=normal status)	1651	ID	2/2
AT705	Date (YYYYMMDD)	373	DT	8/8
AT706	Time (HHMM)	337	TM	4/8

MS1 Segment: Equipment, Shipment or Real Property Location**MS1*MONTREAL TASCHE YARD *PQ*CA**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
MS101	City Name	19	AN	2/30
MS102	State or Province Code	156	ID	2/2
MS103	Country Code	26	ID	2/3

MS2 Segment: Equipment or Container Owner and Type**MS2*CNRU*750154**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
MS201	Standard Carrier Alpha Code (SCAC)	140	ID	2/4
MS202	Equipment Number	207	AN	1/10

AT8 Segment: Shipment Weight, Packaging and Quantity Data

AT8*N*L*45001000**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
AT801	Weight Qualifier (N=net weight)	187	ID	1/2
AT802	Weight Unit Code (L=pounds)	188	ID	1/1
AT803	Weight	81	R	1/10
AT805	Lading Quantity (HHMM)	80	N0	1/7

SE Segment: Transaction Set Trailer

SE*16*36001

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*36

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
GE01	Number of Transaction Sets Included	97	N0	1/10
GE02	Group Control Number	28	N0	1/9

IEA Segment: Interchange Control Trailer

IEA*1*000001275

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

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	CHIIINTTER	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
01822	030313	MONBICKER	PQ	MONTREAL BICKERDIKE
13400	015289	MONINTTER	NB	MONCTON INTER TERM
01822	030191	MONTASYAR	PQ	MONTREAL TASCHE YAR
01822	030318	MONRACTER	PQ	MONTREAL RACINE TER
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

D/K	SPLC	Station Abbr. 633	St/Pr	Full Station Name
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	WINSYMYAR	MB	WINNIPEG SYMING YARD

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.