Implementation Guide to

Shipment Status Message

EDI 322

Version 003030

October 3, 2003

Contact our Customer Support team
at 1-800-361-0198
or by email at **eBusiness@cn.ca**
Visit **www.cn.ca**

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Overview

Purpose of Shipment Status Message 322

This EDI 322 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 322, version 003030, closely complies with the official published Guidelines of the Information Systems Agreement, Standards Work Group.

Customized Formats

It is entirely the responsibility of the Receiver of the 322 who requires coding or mapping structure other than expressly written in the Guidelines and here in the CN Implementation documents to have the necessary changes performed at their system or through a Value Added Network.

Connection To CN

CN 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 322. The 322 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

Telephone CN's Customer Support Team at 1-800-361-0198.
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 eBusiness@cn.ca . You can also visit us at www.cn.ca.

Client Profile Set Up

Client Profile - Status Code (DE 157)

The Status Code messages are controlled by CN in a Client Profile, which can be updated at any time upon request. The codes are found in the Q5 01 segment.

You may select which Status Codes are to be included in your Shipment Status Message.

The CN's EDI 322 provides the following Intermodal Status Codes:

Event	Event Code
Spotted at Customer Location	S
Loading on Spot at Customer Location	L
Released Loaded by Customer	XA
Picked up from Customer Location	AF
In-Gate	I
Loaded on rail (Ramp)	AL
Rail Departure from Origin Intermodal Ramp	RL
Intra-Terminal Movement (Out)	TM
Intra-Terminal Movement (In)	T
Departed from Intermediate Rail Location	P
Arrived at Intermediate Rail Location	A
Vessel Arrival	VA
Vessel Departure	VD
Interchange Delivered	J
Interchange Received	R
Rail Arrival at Destination Intermodal Ramp	AR
Unload from Rail (Ground)	UR
Notified	NT
Deliver Appointment Scheduled	AD
Out-Gate	OA

Completed Unloading at Customer Location	D
Bad Order	B
Repaired and/or Released from Bad Order	G

Client Profile - Attributes

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

- Identify CN as reporting Carrier
- Origin and Destination Intermodal Ramp
- SPLC
- Local or Universal Time
- Pick up Number
- Estimated Time of Arrival
- Exclude Empty Repositioning Bookings

Identify CN as Carrier
If you select this attribute, CN will be identified in an N1 segment as the reporting carrier.

Origin and Destination Intermodal Ramp
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.

SPLC
The default is to display Schedule D and Schedule K codes. If you select this attribute, the SPLC will be provided.

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

Pick Up Number
If you select this attribute, the pick up number will be provided in an N9 segment.

Estimated Time of Arrival
If you select this attribute, an Estimated Time of Deramp at the CN destination intermodal terminal will be provided in a DTM segment.

Exclude Empty Repositioning Bookings
The default is to include all bookings. If you select this attribute, all empty repositioning bookings will be excluded.

Shipment Status Mapping Guide

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

Example Shipment Status Message Output

ISA*04*SW322*00**02*CN*02*ABCINTERNA*000718*1945*U*00200*001007923*0*P*>
GS*SO*CN*ABCINTERNA*20000718*0945*36*X*003030
ST*322*28650004
N7*CNRU*121101*37233*N*6000******CZ*ABCU***2000*A*L*1**102***ABCU
DTM*140*000718*095400*LT*20
M7*200609
W09*CZ*0*FA***Y
W2*CNRU*121101**CC*L**85****CNRZ*179
NA*EQ*CNRU121101*DTTX*654321*F*DB1
Q5*AR*000718*0954*LT**VANCOUVER INTER TER*BC*CA***LQ*49.265800**LK*-123.89000
V1*9085558*SEA WIND**0006****L
R4*O*SL*380002*CHICAGO INTER TERM*US***IL
R4*L*CS*093696*VANCOUVER INTER TER*CA***BC
R4*I*CS*093696*VANCOUVER INTER TER*CA***BC
N1*MC*TRANSPOR*93*CNRZ
N9*WY*582361
N9*BN*459895
N9*IT*I
L0*1
H1*1866*3 *I*RESIN SOLUTION*613 996 6666**70*FA
SE*19*28650004
GE*1*36
IEA*1*001007923

Shipment Status Message Mapping Table

ISA – Interchange Control Header

ISA*04*SW322*00**02*CN*02*ABCINTERNA*000718*1945*U*00200*001007923*0*P*>

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Interchange Control Header	**ISA**			
Authorisation Information Qualifier	ISA01	2/2/ID	Authorisation Information Qualifier	04
Authorisation Information	ISA02	10/10/AN	Authorisation Information	SW322
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	ABCINTERNA
Interchange Date	ISA09	6/6/DT	Interchange Date	0000718
Interchange Time	ISA10	4/4/TM	Interchange Time	1945
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	001007923
Acknowledgement Requested	ISA14	1/1/ID	Acknowledgement Requested	0
Test Indicator	ISA15	1/1/ID		P
Subelement Separator	ISA16	1/1/AN		>

GS – Group Header

GS*SO*CN*ABCINTERNA*20000718*0945*36*X*003030

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Group Header	**GS**			
Message Type	GS01	2/2/ID		SO
Sender Code	GS02	2/15/AN		CN
Receiver Code	GS03	2/15/AN		ABCINTERNA
Transmission Date	GS04	8/8/DT	YYYYMMDD	20000718
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	003030

ST – Transaction Set Header

ST*322*28650004

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Transaction Set Header	**ST**			
Transaction Set Identifier Code	ST01	3/3/ID	Number	322
Transaction Set Control No.	ST02	4/9/AN	Number	28650004

N7 – Equipment Details

N7*CNRU*121101*37233*N*6000******CZ*ABCU***2000*A*L*1**102***ABCU

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Equipment Details	**N7**			
Equipment Initials	N701	1/4/AN		CNRU
Equipment Number	N702	1/10/AN		121101
Weight	N703	1/10/R	If equipment is empty, then no weight provided	37233
Weight Qualifier	N704	1/2/ID	N = Net G = Gross	N
Tare Weight of Equipment	N705	3/8/NO	Estimated Tare weight, paired with N716	6000
Equipment Type	N711	2/2/ID	CN = Container TL = Trailer CZ = Container Reefer CK = Container Heated RT = Reefer Trailer	CZ
Equipment Owner SCAC	N712	1/4/ID		ABCU
Equipment Length	N715	4/5/NO		2000
Tare Qualifier of Weight of Equipment	N716	1/1/ID	A = Actual	A
Weight Unit Code	N717	1/1/ID	L = Pounds K = Kilograms	L
Equipment Check Digit	N718	1/1/NO		1
Height in Inches	N720	1/8/R	III = Inches	102
Width in Inches	N721	1/8/R	III = Inches	
SCAC of Equipment Operator	N723	2/4/ID		ABCU

DTM – Date/Time Reference

DTM*140*000718*095400*LT*20

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Date/Time Reference	**DTM**			
Time of Event Occurrence	DTM01	3/3/ID	140 = Actual Time	140
Date of Event	DTM02	6/6/DT	YYMMDD	000718
Time of Event	DTM03	4/6/TM	HHMMSS	095400
Time Code	DTM04	2/2/ID	UT = Universal Time LT = Local Time	LT
Century	DTM05	2/2/NO		20

M7 – Seal Numbers

M7*200609

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Seal Numbers	**M7**			
Seal Number	M701	2/15/AN		200609

W09 – Equipment and Temperature

W09*CZ*0*FA***Y

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Equipment and Temperature	**W09**			
Equipment Type	W0901	2/2/ID	CZ = Container Reefer Valid codes per DE 40	CZ
Temperature Setting	W0902	1/3/NO	Degree	0

Measurement Code	W0903	2/2/ID	FA = Fahrenheit CE = Celsius	FA
Free form Message	W0906	1/60/AN	Y = Live Reefer +NT = No Temperature	Y

W2 – Equipment Identification

W2*CNRU*121101**CC*L**85****CNRZ*179

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Equipment Identification	**W2**			
Equipment Initial	W201	1/4/AN		CNRU
Equipment Number	W202	1/10/AN		121101
Equipment Type	W204	2/2/ID	CC = Container on Chassis	CC
Equipment Status Code	W205	1/2/ID	L = Load E = Empty	L
Intermodal Service Code	W207	1/2/ID	See Intermodal Service Codes on page 21	85
Chassis Initial	W211	1/4/AN		CNRZ
Chassis Number	W212	1/10/AN		179
Chassis Check Digit	W213	1/1/NO		

NA – Cross Reference Equipment

NA*EQ*CNRU121101*DTTX*654321*F*DB1

Data	322 Data Element	Format (min/max/data)	Values	Example Data
Cross Reference Equip.	**NA**			
Equipment Cross Ref.	NA01	2/2/ID	EQ = Equipment	EQ
Container Initial and No.	NA02	1/30/AN	Concatenated initial and number from N701 + N702	CNRU121101
Railcar Initial	NA03	1/4/AN	Railcar Initial	DTTX

Railcar Number	NA04	1/10/AN	Railcar Number	654321
Cross reference Code	NA05	1/1/ID	F = Railcar (Flatcar)	F
Position on Railcar	NA06	1/3/AN	1st pos. D = Platform 2nd pos. B = Bottom T = Top 3rd pos. 1 = Slot (1,2,3,4)	DB1

Q5 – Status Details

Q5*AR*000718*0954*LT**VANCOUVER INTER TER*BC*CA***LQ*49.265800**LK*-123.89000

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Status Details	**Q5**			
Status Code	Q501	1/2/ID	See Client Profile Status Codes page 2 AR = Rail Arrival at Destination Intermodal Ramp	AR
Status Date	Q502	6/6/DT	YYMMDD	000718
Status Time	Q503	4/4/TM	HHMM	0954
Time Code	Q504	2/2/ID	LT = Local Time	LT
City Name	Q506	2/30/AN	See CN Intermodal Termials and Ports page 20	VANCOUVER INTER TER
State/Province Code	Q507	2/2/ID		BC
Country Code	Q508	2/2/ID		CA
Reference Number Qualifier	Q511	2/2/ID	LQ = Latitude	LQ
Reference Number	Q512	1/30/AN	Latitude in NNN.NNNN	49.265800
Direction Identifier Code	Q513	1/1/ID	N = North(default if blank) S = South E = East W = West	
Reference Number Qualifier	Q514	2/2/ID	LK = Longitude	LK

Reference Number	Q515	1/30/AN	Longitude in NNN.NNNN	-123.89000
Direction Identifier Code	Q516	1/1/ID	W = West (default if blank) S = South E = East N = North	

V1 – Vessel Identification

V1*9085558*SEA WIND**0006****L

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Vessel Identification	**V1**			
Vessel Code	V101	1/7/ID	Lloyds Vessel Code	9085558
Vessel Name	V102	2/28/AN		SEA WIND
Flight/Voyage Number	V104	2/10/AN		0006
Vessel Code Qualifier	V108	1/1/ID	L= Lloyds Code	L

R4 – Terminal or Port

R4*O*SL*380002*CHICAGO INTER TERM*US***IL

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Terminal or Port	**R4**			
Terminal/Port Function Code	R401	1/1/ID	O = Origin Terminal E = Destination Terminal D = Port of Discharge L = Port of Loading I = Interim Point	O
Location Qualifier	R402	1/2/ID	K = Schedule K for Canada and Overseas D = Schedule D for U.S. CS = Canadian SPLC	SL

			SL = United States SPLC	
Location Identifier	R403	1/25/AN	SPLC Code	380002
Terminal/Port Name	R404	2/24/AN	See CN Intermodal Termials and Ports page 20	CHICAGO INTER TERM
Country Code	R405	2/3/ID	CA = Canada US = United States	US
State/Province Code	R408	2/2/ID		IL

R4 – Terminal or Port

R4*L*CS*093696*VANCOUVER INTER TER*CA***BC

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Terminal or Port	**R4**			
Terminal/Port Function Code	R401	1/1/ID	O = Origin Terminal E = Destination Terminal D = Port of Discharge L = Port of Loading I = Interim Point	L
Location Qualifier	R402	1/2/ID	K = Schedule K for Canada and Overseas D = Schedule D for U.S. CS = Canadian SPLC SL = United States SPLC	CS
Location Identifier	R403	1/25/AN	SPLC Code	093696
Terminal/Port Name	R404	2/24/AN		VANCOUVER INTER TER
Country Code	R405	2/3/ID	CA = Canada US = United States	CA
State/Province Code	R408	2/2/ID		BC

R4 – Terminal or Port

R4*I*CS*093696*VANCOUVER INTER TER*CA***BC

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Terminal or Port	**R4**			
Terminal/Port Function Code	R401	1/1/ID	O = Origin Terminal E = Destination Terminal D = Port of Discharge L = Port of Loading I = Interim Point	I
Location Qualifier	R402	1/2/ID	K = Schedule K for Canada and Overseas D = Schedule D for U.S. CS = Canadian SPLC SL = United States SPLC	CS
Location Identifier	R403	1/25/AN	SPLC Code	093696
Terminal/Port Name	R404	2/24/AN	See CN Intermodal Termials and Ports page 20	VANCOUVER INTER TER
Country Code	R405	2/3/ID	CA = Canada US = United States	CA
State/Province Code	R408	2/2/ID		BC

N1 – Name

N1*MC*TRANSPOR*93*CNRZ

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Name	**N1**			
Entity Identifier Code	N101	2/2/ID	MC = Motor Carrier	MC
Name	N102	1/35/ID		TRANSPOR
Identification Code	N103	1/2/ID	93 = CN assigned Code	93

Identification Code Qualifier	N104	2/17/AN	Carter Code according to N103	CNRZ

N9 – Reference Number

N9*WY*582361
N9*BN*459895
N9*IT*I

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Reference Number	**N9**			
Reference Number Qualifier	N901	2/2/ID	WY = Waybill Number plus up to 9 references from bill of lading	WY
Reference Number	N902	1/30/AN		582361

L0 – Line Item – Quantity and Weight (Only if hazardous)

L0*1

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Line Item – Quantity and Weight	**L0**			
Lading Line Item Number	L001	1/3/NO		1

H1 – Hazardous Material

H1*1866*3 *I*RESIN SOLUTION*613 996 6666**70*FA

Data	322 Data Element	Format (min/max/ data)	Values	Example Data
Hazardous Material	**H1**			
Hazardous Material Code	H101	4/10/AN	UN Code	1866
Hazardous Materials Class Code	H102	2/4/AN	IMO Class	3
Hazardous Materials Code Qualifier	H103	1/1/ID	IMO Code	I

Qualifier				
Hazardous Materials Description	H104	2/30/AN	Proper Shipping Name	RESIN SOLUTIONS
Hazardous Materials Contact	H105	1/24/AN	ER Name and Telephone Number	613 996 6666
Hazardous Materials Page	H106	1/6/AN	IMO Page Number	
Flash Point Temperature	H107	1/3/N		70
Measurement Code	H108	2/2/ID	FA = Fahrenheit CE = Celsius	FA

SE – Transaction Set Trailer

SE*19*28650004

Date	322 Data Element	Format (min/max/ data)	Values	Example Data
Transaction Set Trailer	**SE**			
Number of Included Segments	SE 01	1/10/NO	Number of included segments	19
Transaction Set Control Number	SE 02	4/9/AN	Transaction Set Control Number	28650004

GE – Functional Group Trailer

GE*1*36

Date	214 Data Element	Format (min/max/ data)	Values	Example Data
Functional Group Trailer	**GE**			
Number of Transaction Sets Included	GE 01	1/10/NO	Number of Transaction Sets Included	1
Group Control Number	GE 02	1/9/NO	Group Control Number	36

IEA – Interchange Control Trailer

IEA*1*001007923

Date	322 Data Element	Format (min/max/ data)	Values	Example Data
Interchange Control Trailer	**IEA**			
Number of Included Groups	IEA01	1/5/NO	Number of GS-GE groups	1
Interchange Control No.	IEA02	9/9/NO	Interchange Control No.	001007923

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
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

CN Intermodal Terminals and Ports Continued.

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.