



<https://automate.cn.ca>
Automated Fleet Tracking
Implementation Guide

Version 1.0
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<http://www.cn.ca/>

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Table of Contents

Introduction	3
In This Document	3
What is Automate.cn.ca?	3
Accessing Automate.cn.ca	3
Fleet Tracking Request	4
Parameters	4
Request Example	8
Fleet Tracking Response	9
Response File Types	9
Response Format F, HF, FC, FT - Location Format with Conveying Flatcar	9
<i>Response Example</i>	9
<i>Data Elements & Descriptions</i>	9
<i>Record Layout</i>	10
Response Format H or HH – ETA (Estimated Time of Arrival)	11
<i>Response Example</i>	11
<i>Data Elements & Descriptions</i>	12
Response Format I or HI – ETA (Estimated Time of Arrival) & SPLC (Standard Point Location Code)	12
<i>Response Example</i>	12
<i>Data Elements & Descriptions</i>	13
Response Format O or HO – Origin / Destination	14
<i>Response Example</i>	14
<i>Data Elements & Descriptions</i>	14
Response Format W or HW – Scale or Shipper’s Weights	15
<i>Response Example</i>	15
<i>Data Elements & Descriptions</i>	15
Security	17
Errors	17
Non-Browser Applications	17
Supported SSL Protocols	17
Appendix	18
Event Codes and Descriptions	18
Bad Order Reason Codes	19
Hold Reason Codes	19

Introduction

In This Document

This document describes how to track your shipments using the Fleet Tracking (FTI) function of Automate.cn.ca.

Other functions available on Automate.cn.ca are:

- Shipment Tracking (STI) – Track your shipments by Equipment ID.
- Railcar Release (uses Web Services and XML) – Release empty and loaded railcars to CN for pickup.

For more information, go to <http://www.cn.ca/automate>.

What is Automate.cn.ca?

Automate.cn.ca allows you to track your CN shipments without having to navigate through the CN e-Business website, or without the need for a web browser.

It uses the HTTPS protocol to ensure security of information between parties.

It also allows you to release your empty and loaded railcars to CN for pickup using Web Services and XML.

Accessing Automate.cn.ca

To access Automate.cn.ca, you must be a registered user of the CN e-Business site.

If you are already a registered user, read this document to learn how to use Automate.cn.ca now.

To register for access to CN e-Business, go to <http://www.cn.ca/register>.

Fleet Tracking Request

The automated fleet tracking request consists of a secure URL string that includes a combination of mandatory and optional parameters.

Enter the complete URL in the site location or address field of your internet browser to submit an automated fleet tracking request, or use a [non-browser application](#) to submit the request.

Base URL → <https://automate.cn.ca/ECquery?>
Parameters → [&UserID=MyUserid&Password=MyPassword &Function=FTI](#)
[&Format=HL&EquipmentID=CNA385401](#)

Note: The URL must be on a single line without spaces or breaks.

To perform a fleet tracking query, you must first have access to a fleet (My Shipments list). If you do not already have access to a fleet, you can request the creation of a new fleet (My Shipments list) on the CN eBusiness site, within the My Shipments tool (appears under the 'Monitor Shipments' heading in the eBusiness main menu).

Parameters

Parameters in URLs use the following format: *&ParameterName=ParameterValue*

Each parameter must be separated by '&' and spaces are not permitted.

Parameter	Mandatory / Optional	Description
&UserID=	Mandatory	The unique userid that you use to login to the CN e-Business website. Example: &UserID=Mary1234
&Password=	Mandatory	Case-sensitive. The password that you use to login to the CN e-Business website. Example: &Password=Xc56t44M
&Function=	Mandatory	The function being used. Use 'FTI' for fleet tracking. Use &Function=FTI
&FleetID=	Mandatory	The fleet id assigned to you by CN. Maximum of 9 characters, both alpha & numeric are accepted. Example 1: &FleetID=9600 Example 2: &FleetID=ABCCOMPANY
&Selection=	Optional	If omitted, the selection will be 'F' (Last Location of All Shipments).

	<p>Selections:</p> <table border="1" data-bbox="521 285 1336 516"> <thead> <tr> <th data-bbox="521 285 691 348">Selection Code</th> <th data-bbox="691 285 1336 348">Selection Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 348 691 380">F</td> <td data-bbox="691 348 1336 380">Last location of all shipments (default)</td> </tr> <tr> <td data-bbox="521 380 691 411">L</td> <td data-bbox="691 380 1336 411">Last location of shipments moved since last request</td> </tr> <tr> <td data-bbox="521 411 691 443">N</td> <td data-bbox="691 411 1336 443">Shipments not moved in 48 hours</td> </tr> <tr> <td data-bbox="521 443 691 474">B</td> <td data-bbox="691 443 1336 474">Bad Order shipments</td> </tr> <tr> <td data-bbox="521 474 691 516">H</td> <td data-bbox="691 474 1336 516">Shipments in Hold</td> </tr> </tbody> </table>		Selection Code	Selection Description	F	Last location of all shipments (default)	L	Last location of shipments moved since last request	N	Shipments not moved in 48 hours	B	Bad Order shipments	H	Shipments in Hold
Selection Code	Selection Description													
F	Last location of all shipments (default)													
L	Last location of shipments moved since last request													
N	Shipments not moved in 48 hours													
B	Bad Order shipments													
H	Shipments in Hold													
&Loe=	Optional	<p>If omitted, the load or empty choice will be 'B' (Both loads and empties). The option to view loads, empties, or both loads and empties for a request.</p>												
&Format=	Optional	<p>If omitted, the report format will be 'F' (Location), or the report format you last chose. The format of the report that will be returned. There are six different report formats. Some of the formats can be returned as different file types. This results in fourteen possible format code values that can be used.</p> <p>Example: &Format=HH</p>												
<p>Load/Empty Options:</p> <table border="1" data-bbox="521 795 1336 932"> <thead> <tr> <th data-bbox="521 795 834 827">Load / Empty Code</th> <th data-bbox="834 795 1336 827">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 827 834 858">L</td> <td data-bbox="834 827 1336 858">Loads only</td> </tr> <tr> <td data-bbox="521 858 834 890">E</td> <td data-bbox="834 858 1336 890">Empties only</td> </tr> <tr> <td data-bbox="521 890 834 932">B</td> <td data-bbox="834 890 1336 932">Both loads and empties</td> </tr> </tbody> </table>		Load / Empty Code	Description	L	Loads only	E	Empties only	B	Both loads and empties					
Load / Empty Code	Description													
L	Loads only													
E	Empties only													
B	Both loads and empties													

Formats:

Format Code	Format Description	Type	Mime/Type
F	Location (default)	Flatfile	text/html
O	Origin / Destination	Flatfile	text/html
W	Weight	Flatfile	text/html
C	SPLC	Flatfile	text/html
H	ETA	Flatfile	text/html
I	ETA / SPLC	Flatfile	text/html
HF	Location	HTML	text/html
HO	Origin / Destination	HTML	text/html
HW	Weight	HTML	text/html
HC	SPLC	HTML	text/html
HH	ETA	HTML	text/html
HI	ETA / SPLC	HTML	text/html
FC	Location	Comma Delimited	text/CN-automate-csv
FT	Location	Tab Delimited	text/CN-automate-tab

&Sort=

Optional

If omitted, the sort order will be 'K' (Equipment Initial and Number).
Used for sorting the response records.

Example: **&Sort=K**

Sort Options:

Sort Code	Description
K	Equipment Initial /Number (default)
C	Consignee or Shipper
D	Destination
E	Event
G	Product
L	Location
O	Origin
S	Load/Empty Status
T	Time of event
A	Destination, then ETA
B	ETA, then Destination

&Language=	Optional	<p>If omitted, the language of the response will correspond to the language preference in your eBusiness profile. Used for requesting English or French column headers. Not supported under the C and T formats.</p> <p>Example: &Language=E</p>					
	<p><u>Languages:</u></p> <table border="1" data-bbox="696 470 1157 571"> <thead> <tr> <th data-bbox="696 470 927 506">Language Code</th> <th data-bbox="927 470 1157 506">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="696 506 927 541">E</td> <td data-bbox="927 506 1157 541">English (<i>default</i>)</td> </tr> <tr> <td data-bbox="696 541 927 571">F</td> <td data-bbox="927 541 1157 571">French</td> </tr> </tbody> </table>		Language Code	Description	E	English (<i>default</i>)	F
Language Code	Description						
E	English (<i>default</i>)						
F	French						

Request Example

The following is an example of an automate.cn.ca fleet tracking request.

<https://automate.cn.ca/ECquery?&UserID=xxxxxxx&Password=Yyyy123&Function=FTI&FleetID=MYFLEET1&Selection=N&Format=HF&Loe=L&Sort=K&Language=E>

In this example, the user requested fleet tracking information (&Function=FTI) for fleet id MYFLEET1 (&FleetID=MYFLEET1), for shipments not moved in 48 hours (&Selection=N), in html location format (&Format=HF), for loads only (&Loe=L), sorted by Equipment Initial and Number (&Sort=K) with column headings in English (&Language=E).

Fleet Tracking Response

Response File Types

The following response file types are available, specified using the format parameter.

- **Flat File:** All data fields are delimited by a blank (space) character.
- **Comma Delimited:** The Comma delimited file type contains commas between all fields, and replacing spaces.
- **Tab Delimited:** The Tab delimited file type contains TAB (ASCII 09) between all fields, and replacing spaces.
- **HTML:** The HTML format returns data that can be included in a web page of your design. The response is sandwiched between the preformatted html tags.

Response Format F, HF, FC, FT - Location Format with Conveying Flatcar

Response Example

The following is an example of the Format F, HF, FC, or FT response.

```
CLMFFR CN COMPANYABC 08080716MYFLEET1
Fleet – MYFLEET1 COMPANYABC Description ALL OUTBOUND SHIPMENTS
Last location of all shipments in Fleet -Ld & Ety-Equipment order

Equipment Location Pr Date Time L E Train/ Destined Pr Flat Car SCAC
Init Number St MM DD HHMM E V BO/HLD St Init Nbr
-----
CN 558332 KAPUSKASI ON 08 07E1215 L P REGINA SK ONT
IC 533113 MONTASYAR PQ 08 04E2301 E W 36806 LASARRE PQ CN
IC 533212 PTEDWARD NS 08 02A1200 L Z PTEDWARD NS CBNS
IC 533234 VILLEROY YPQ 08 07E0241 L P 40006 ESTCOURT PQ CN
IC 533236 SENNETERR PQ 08 07E1305 L P 36507 PURVIS MS CN
EOM
REC_COUNT 00000005
```

Data Elements & Descriptions

The following data elements are included in the Format F, HF, FC, or FT response.

Equipment initials and number

The marks stencilled on the railcar, trailer or container.

Location (PR/ST)

The most recent reported location of the unit.

Date (MMDDHHMN)

The month, date and time of the event

Load/empty (L/E)

Indicates whether the unit is a load or an empty.

Event (E/V)

The latest [event](#) reported.

Train/BO/hold

Depending on the event, this will indicate:

- The train on which the unit is travelling,
- The [bad order](#) (repair condition),
- The [hold](#) (delay) reason, or
- The track on which the equipment is located.

Destined (PR/ST)

The destination of the current shipment.

Flat Car Initials Number

The marks stencilled on the railcar

SCAC

The reporting road.

Record Layout

The following table contains the record layout for the Format F, HF, FC, or FT response.

Segment	Field Name	Type	Value	Length	Start	End
Header	Response Type	ID	CLM	3	1	3
Header	Format	Character	F, O, W, C, H or I	1	4	4
Header	From	ID	FR	2	5	6
Header	CLM_SCAC		CN	4	8	11
Header	Sender		CNRRYS	13	13	25
Header	Response Date	Date/Time	YYMMDDHH	8	26	33
Header	Fleet ID		YYMMDDHH	9	34	42
Data	Equipment Initials	Character		4	1	4
Data	Blank	Character		1	5	5
Data	Equipment Number	Character		6	6	11
Data	Blank	Character		1	12	12
Data	Location	Character		9	13	21
Data	Blank	Character		1	22	22
Data	Location Pr/St	Character		2	23	24
Data	Estimate Flag	Character		1	25	25
Data	Event Month	Character		2	26	27
Data	Blank	Character		1	28	28
Data	Event Day	Character		2	29	30
Data	Time Zone	Character		1	31	31
Data	Event Hour	Character		2	32	33
Data	Event Minute	Character		2	34	35

Data	Blank	Character		1	36	36										
Data	Load/ Empty	Character		1	37	37										
Data	Blank	Character		1	38	38										
Data	Event	Character		1	39	39										
See Appendix for listing of events descriptions.																
Data	Blank	Character		3	40	42										
Data	Train / Bad Order Code	Character		6	43	48										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Event</th> <th>Train/ Bad Order Code Field Contains</th> </tr> </thead> <tbody> <tr> <td>A or P</td> <td>The train on which the unit is travelling</td> </tr> <tr> <td>B</td> <td>The bad order (mechanical failure) code</td> </tr> <tr> <td>H</td> <td>The hold (delay) code</td> </tr> <tr> <td>W or Z</td> <td>The track on which the unit is located</td> </tr> </tbody> </table>							Event	Train/ Bad Order Code Field Contains	A or P	The train on which the unit is travelling	B	The bad order (mechanical failure) code	H	The hold (delay) code	W or Z	The track on which the unit is located
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W or Z	The track on which the unit is located															
See Appendix for listing of bad order and hold reasons.																
Data	Blank	Character		1	49	49										
Data	Destination	Character		9	50	58										
Data	Blank	Character		1	59	59										
Data	Destination Pr/St	Character		2	60	61										
Data	Blank	Character		1	62	62										
Data	Flatcar Initials	Character		4	63	66										
Data	Flatcar Number	Character		6	67	72										
Data	Reporting Railroad	Character		4	73	76										
<i>End of Message</i>	EOM	ID	EOM	3	1	3										
<i>End of Message</i>	REC_COUNT	Zero-Fill Number	Count of detail records	8												

Response Format H or HH – ETA (Estimated Time of Arrival)

Response Example

The following is an example of the Format H and HH response.

```
CLMHFR CN COMPANYABC 08080811 ALL OUTBOUND SHIPMENTS
Fleet - MYFLEET1 COMPANYABC Description ALL OUTBOUND SHIPMENTS
Last location of all shipments in Fleet -Ld & Ety-Equipment order
```

```
Equipment Location PrDateTimeLETrain/Destined PrSCAC ETA E ETA
Init Number StMMDDHHMMEVBO/HLD St City Pr/St V MMDDHH
```

```
-----
CN 558332 HEARST ON08072210LJ REGINA SKONT REGINA SK Z 081309
IC 533113 PARENT PQ08080455EP 36607LASARRE PQCN LASARRE PQ Z 081111
IC 533212 PTEDWARD NS08021200LZ PTEDWARD NSCBNS
IC 533234 EDMUNDSTONB08080909LD 30807ESTCOURT PQCN ESTCOURT PQ Z 081022Y
IC 533236 FITZPATRIPQ08080252LP 36507PURVIS MSCN PURVIS MS Z 081905Y
EOM
REC_COUNT 00000005
```

Data Elements & Descriptions

The following data elements are included in the Format H and HH response.

Equipment initials and number

The marks stencilled on the railcar, trailer or container.

Location (PR/ST)

The most recent reported location of the unit.

Date (MM DD)

The month and the day of the reported event.

Time (HH MM)

The hour and minute hat the unit was last reported.

Load/empty (L/E)

Indicates whether the unit is a load or an empty.

Event (E/V)

The latest [event](#) reported.

Train/BO/hold

Depending on the event, this will indicate:

- The train on which the unit is travelling,
- The [bad order](#) (repair condition),
- The [hold](#) (delay) reason, or
- The track on which the equipment is located.

Destination (PR/ST)

The destination of the current shipment.

SCAC

The reporting road.

ETA City (PR/ST)

The location that corresponds to the estimated time of arrival.

ETA Event (E/V)

The event associated with the ETA.

ETA (MMDDHH)

The month, the day and the hour in which the equipment is scheduled to arrive.

Response Format I or HI – ETA (Estimated Time of Arrival) & SPLC (Standard Point Location Code)

Response Example

The following is an example of the Format I and HI response.

CLMHFR CN COMPANYABC 08080811 ALL OUTBOUND SHIPMENTS
Fleet - MYFLEET1 COMPANYABC Description ALL OUTBOUND SHIPMENTS
Last location of all shipments in Fleet -Ld & Ety-Equipment order

EquipmentLocation DateTimeLETrain/Destined SCAC ETA EETA AA
Init Nbr SPLC/SUFXMMDDHHMMEVBO/HLDSPLC/SUFX SPLC/SUFXVMMDDHH

CN 55833205465000008081225LP 57208070100000CN 070100000Z081309Y
IC 53311303810600008080455EP 36607038922000CN 038922000Z081111
IC 53321201008100008021200LZ 010081000CBNS
IC 53323401786000008080909LD 30807021225000CN 021225000Z081022Y
IC 53323603253000008080252LP 36507489460000CN 489460000Z081905Y
EOM
REC_COUNT 00000005

Data Elements & Descriptions

The following data elements are included in the Format I and HI response.

Equipment initials and number

The marks stencilled on the railcar, trailer or container.

Location SPLC/SUFX

Standard Point Location Code defined by the National Motor Freight Tariff Association (NMFTA) in the U.S.A and the National Transportation Agency (NTA) in Canada. The SPLC is 6 positions in length plus 3 position subfield (normally blank or 000). The SPLC is a hierarchical code representing 2 position province/state, 2 position county, 2 position municipality.

Date (MMDD)

The date that the unit was last reported.

Time (HHMM)

The hour that the unit was last reported.

Load/empty (L/E)

Indicates whether the unit is a load or an empty.

Event (E/V)

The latest [event](#) reported.

Train/BO/hold

Depending on the event, this will indicate:

- The train on which the unit is travelling,
- The [bad order](#) (repair condition),
- The [hold](#) (delay) reason, or
- The track on which the equipment is located.

Destined (SPLC/SUFX)

Standard Point Location Code defined by the National Motor Freight Tariff Association (NMFTA) in the U.S.A and the National Transportation Agency (NTA) in Canada. The SPLC is

6 positions in length plus 3 position subfield (normally blank or 000). The SPLC is a hierarchical code representing 2 position province/state, 2 position county, 2 position municipality.

SCAC

The reporting road.

ETA City (PR/ST)

The location of the estimated time of arrival.

ETA Event (E/V)

The event associated with the ETA.

ETA (MMDDHH)

The month, the day and the hour in which the equipment is scheduled to arrive.

Response Format O or HO – Origin / Destination

Response Example

The following is an example of the Format O and HO response.

```
CLMHFR CN COMPANYABC 08080811 ALL OUTBOUND SHIPMENTS
Fleet - MYFLEET1 COMPANYABC Description ALL OUTBOUND SHIPMENTS
Last location of all shipments in Fleet -Ld & Ety-Equipment order

Equipment L Time E Location Pr Origin Destin. Shipp/ Conten Train/
Init Number E DD HH V St Consign. BO/HLD
-----
CN 558332 L 08 12 P HEARST ON COCHRANE REGINA LANCASSA PLYWD 57208
IC 533113 E 08 04 P PARENT PQ MONTASYA LASARRE NORBORIN 36607
IC 533212 L 02 12 Z PTEDWARD NS VALDOR PTEDWARD CANWELBU WDPROD
IC 533234 L 08 09 D EDMUNDSTONB LASARRE ESTCOURT POUTREIN WDPROD 30807
IC 533236 L 08 02 P FITZPATRIPQ LASARRE PURVIS LOWESVMI WDPROD 36507
EOM
REC_COUNT 00000005
```

Data Elements & Descriptions

The following data elements are included in the Format O and HO response.

Equipment initials and number

The marks stencilled on the railcar, trailer or container.

Load/empty (L/E).

Indicates whether the unit is a load or an empty.

Time (DD HH)

The day and the hour that the unit was last reported.

Event (E/V)

The latest [event](#) reported.

Location (PR/ST)

The most recent reported location of the unit.

Origin (does not include province/state)

The origin city of the current shipment.

Destination (does not include province/state)

The destination of the current shipment.

Consignee (or shipper)

The current consignee of the shipment. Note this will be available only when shipments are on CN, and may represent the shipper for some shipments.

Contents

An abbreviation of the contents of the shipment. For grain shipments this will represent the Canadian Grain Commission commodity code.

Train/BO/hold

Depending on the event, this will indicate:

- The train on which the unit is travelling,
- The [bad order](#) (repair condition),
- The [hold](#) (delay) reason, or
- The track on which the equipment is located.

Response Format W or HW – Scale or Shipper’s Weights

Response Example

The following is an example of the Format W and HW response.

```

CLMHFR CN COMPANYABC 08080811 ALL OUTBOUND SHIPMENTS
Fleet - MYFLEET1 COMPANYABC Description ALL OUTBOUND SHIPMENTS
Last location of all shipments in Fleet -Ld & Ety-Equipment order

```

```

Equipment Weights S Date Weigh Location W/B Allow
Init Nbr Gross Tare C Net MMDD City Pr/StYYMMDD W
-----
CN 558332177600 70200 107400 080806 L
IC 533113 74000 080804 L
IC 533212251010 73800 177210 080724 L
IC 533234272170 73200 198970 080729 L
IC 533236272300 73400 198900 080805 L
EOM
REC_COUNT 00000055

```

Data Elements & Descriptions

The following data elements are included in the Format W and HW response.

Equipment initials and number

The marks stencilled on the railcar, trailer or container.

Weights (Gross, Tare, Net)

The Gross weight = total weight of shipment + unit The Tare weight = the empty weight of the trailer, container, or railcar Net weight = the weight of the goods in the unit (Gross - Tare = Net)

Date (MMDD)

The month and date of the scale weight if the Scale Code = 8.

Location city (PR/ST)

The location where the unit was scaled if the Scale Code = 8.

Waybill date (MM DD)

The date of the current waybill.

Allowance (ALW)

Indicates any weight subtracted by the railroad from the GROSS to correct for weighing conditions, such as several inches of snow on the top of the car.

Kilograms/pounds (K)

An indication as to whether the weights are in kilograms (K) or pounds (L).

Security

Automate.cn.ca uses the encrypted HTTPS and SSL protocols to help ensure security of the information being transmitted between parties.

Only registered users of the CN e-Business site can use Automate.cn.ca. Each request for information undergoes a security verification of the userid and password provided in the request.

Errors

If an error is encountered while a request is being processed, an error code with a brief description will be returned:

- **400** - Indicates that some information might be missing or misspelled on the URL; user should verify that they have given the proper information.
- **500** - There has been a server or communication error; CN eBusiness support should be notified if error persists (ebusiness@cn.ca or 1-800-361-0198).

Non-Browser Applications

You can create your application in any language and platform that supports socket connections. Follow the SSL protocol specification or use an SSL toolkit on the market to connect to our server.

Please read the licensing agreement carefully before using any of the products.

Supported SSL Protocols

The following SSL protocols are supported.

SSL 2.0 with cyphers:

- RC4 with 40 bit encryption and MD5 message authentication
- RC2 with 40 bit encryption and MD5 message authentication

SSL 3.0 with cyphers:

- RC4 with 40 bit encryption and MD5 message authentication
- RC2 with 40 bit encryption and MD5 message authentication

Appendix

Event Codes and Descriptions

Code	Last Reported Event
A	Arrived at location
B	Bad order (needs repair)
C	Came in the gate of an intermodal terminal
D	Arrived at final destination yard or terminal
E	Exit the gate of an intermodal terminal
F	Flat Car has been reported in bad order (needs repair)
G	Released from bad order (repair) and returned to service
H	Hold status
J	Junction delivery (interchange to another railroad)
K	Intermodal Interchange
M	Motor carrier move
P	Passed a station on a train (departure)
Q	Flat Car released from bad order (repair)
R	Received at junction interchange from another railroad
S	Stored
U	Ramped, intermodal unit loaded onto a flatcar
V	Deramped, intermodal unit removed from a flatcar
W	Release by shipper (OK to move)
X	Departed shipper, pickup or pull
Y	Notification or constructive placement
Z	Placement or delivery to consignee

Bad Order Reason Codes

Code	Mechanical Defect
A	Body, including floor, roof, sides, and multi-level racks
B	Brakes
C	Cleanout in preparation for loading
D	Derailment or accident
E	Doors, including hopper gates, hatches, domes
F	Draft system, including couplers, yokes, etc.
G	Interior, including linings or coatings
H	Load attention requiring measurement, transloading, or containment of leaking product
I	Load restraint, including tiedowns, bulkheads, trailer hitches, or pedestals
J	Mechanical inspections resulting from early warning letters or maintenance advisory notices
K	Refrigeration equipment, including pre-trip inspection, precooling, or defective components
L	Safety appliances, including ladders, handholds, or running boards
M	Trucks, including sideframes and bolsters
N	Underframe, including centre sills, side sills and body bolsters
O	Wheel assembly, including axles, wheel bearings, or hot boxes

Hold Reason Codes

Code	Hold / Delay Reason
CC	CC - Customs clearance
CW	Equipment in wrecked train (derailment)
DI	Disposition, awaiting customer instructions
EM	Embargo, shipment cannot proceed via its original route. Awaiting additional instructions from customer
HI	Heating/icing
LI	Lading inspection for load-shift or dimensional measurement
MI	Mechanical inspection
NB	No bill, awaiting original shipping instructions
OC	Operating conditions
OT	Other
WG	Weighing, shipment held until scaled