Automated Railcar Release

How to release railcars through computer-to-computer exchange.

This document explains the procedures to provide data from your computer to CN's systems for the purpose of releasing railcars after they have been loaded or unloaded.

Revision Date: January 31, 2014



Table of Contents

1. Introduction	1
2. Release Input Format	2
3. Release Output Format	6
4. Release Fault Format	7
5. Release Error Codes	8

1. Introduction

Purpose	This document describes the exchange of information between your system and CN's system for the purpose of releasing loaded or empty railcars
Traffic Applicable	This capability relates to railcar shipments only. Release of Trailers or Containers is not supported.
Capabilities	This system will allow:
	• Release of an empty car
	• Switch the car to a specific track and after a given car
	• Release of a loaded car
Not Supported	The following items are not supported in this system:
	• Release of a car rejected for loading. For that capability you must use Switch, Release, Order-in on the Internet.
	• "Quality" release, where additional shipment details are provided. For this capability you must either FAX your information, or provide complete Shipping Instructions
Timing	To be effective this exchange must take place immediately after the shipment has been determined being loaded or emptied within your system.
Process	This system has three basic exchanges defined:
	 Input, which contains all the data being provided to CN
	 Output, which contains confirmation of all input, including any application edits that have failed
	• Transmission Fault, to communicate any syntactical or data transport failures
Next	Release Input Format
	Release Output Format Release Fault Format
	Release Error Codes
	Release Error Coues

2. Release Input Format

Introduction	This section describes the m message that will provide a release.	ain data and format of the input list of equipment for CN to		
Purpose	The purpose of this exchang railcars. Once released, the i created to notify the crew to	internal CN work order will be		
Required Data	The following data is requir	ed for a release to be processed:		
	• Equipment Initials	• Equipment Initials		
	• Equipment number			
	• Loaded or Empty			
Optional Data	The following data may be provided, if not provided the default will apply.			
	Note : Version '0', no change brought to current validations. When releasing from 'Load' to 'Empty' where residue weight and unit of measure would be required system will not apply validation rules.			
	If validation rules are requir	red then use Version '1'.		
	Data	Default		
	Release Date and Time	Current time		
	Release track	Current track		
	After Car Initials	Current car		
	After Car Number	Current car number		
	Lid Number			
	Release Code (see below)			
	Release Detail (see below)			
	Residue Weight			
	Release Unit of Measure			
	Version	1		
		(0, If you have not yet included changes regarding residue return)		

Release (Code
-----------	------

One of the following codes should be provided when releasing an empty car that is defective (bad ordered).

Code	Description
BA	Release-Side Doors (Box Type Cars)
BC	Release-Wood Lining
BD	Release-Account Dirty
BE	Release-Bulkheads Defective
BG	Release-Bad End Gates
BJ	Release-Floor Defective
BL	Release-Hatch Covers
BP	Release-Roof Defective
BS	Release-Hopper Gates Defective
BV	Release-Unloading System
BW	Release-Lining Hopper
DE	Release-Declared Empty
СР	Release-Car has been cleaned/purged

Release Code One of the following codes should be provided when releasing a loaded car that is defective (bad ordered).

Code	Description
BM	Reject-Unloading Sytem-Full Load
BN	Relject-Unloading System-Partial Load

Release Detail When a Release Code is provided, up to 215 characters can be entered to describe the problem with the railcar.

Release WeightSpecify the residue weight for releasing empty gondolas,
hoppers and tanks originating in Canada. Zero weight is
considered declared empty.

Release UOM

one of the following unit of measure should be provided when releasing an empty car that has residue weight

Code	Description
KG	Kilograms
LB	Pounds
ST	Short Tons
LT	Long Tons
MT	Metric Tons

Technical The technical definitions are contained in the following files:

<mark>Technical</mark> Overview	https://www.cn.ca/-/media/Files/Customer-Centre/Customer-Centre- Documents/automated-railcar-release-WSDL-and-XML-documentation-en.pdf
WSDL Definition	SRORelease.xsd
Sample	Sample SRO Web Service Input XML.xml

Example	Request xml file:
	<sroreleaserequest> <username>username</username> <version>1</version></sroreleaserequest>
	<releasesummary></releasesummary>
	<date>20081021</date>
	<time>13:09</time>
	 <equipmentreleasedetail></equipmentreleasedetail>
	<equipmentinfo> <equipmentinitials>BN</equipmentinitials> <equipmentnumber>500390</equipmentnumber> <releasedtrack>EJ61</releasedtrack> </equipmentinfo> <loadempty>EMPTY</loadempty> <lidnumber>FC1234</lidnumber> <releasecode> BP</releasecode> <releasedetail>side door is sticky<!-- ReleaseDetail--> <residueweight></residueweight></releasedetail>
	<weight>1500</weight> <weightuom>KG</weightuom>
	ResidueWeight

Next	Release Output Format
	Release Fault Format

3. Release Output Format

Introductio	n This section describes the response to a Release Request.	
Purpose	The purpose of this exchange is to provide positive response on all equipment requested for release. It provides either an acceptance or rejection message for each car. Where there is a rejection an error code is returned.	
Data Provid	led The output consists of two components:	
	 Header, which confirms the date and time, track, and number of cars processed. 	
	 Details, which provides the equipment ID processed and its status 	
Technical	The technical definitions are contained in the following files:	
Technical Overview	https://www.cn.ca/-/media/Files/Customer-Centre/Customer-Centre- Documents/automated-railcar-release-WSDL-and-XML-documentation-	<mark>en.</mark>
WSDL Definition	SRORelease.xsd	
Sample	Sample SRO Web Service Output XML.xml	
Next	Release Fault Format Release Error Codes	

4. Release Fault Format

Introductio	8
	process. This message relates only to the syntax of the
	message and not the content validity.
Purpose	Provides notification if there is a problem with the exchange
-	of the data across the Internet.
Data Provid	led This exchange provides:
	• Error code
	• Error description
When Sent	This exchange is only sent if there is an error encountered.
Technical	The technical definitions are contained in the following files:
Technical	https://www.cn.ca/-/media/Files/Customer-Centre/Customer-Centre-
<mark>Overview</mark>	Documents/automated-railcar-release-WSDL-and-XML-documentation-e
WSDL	SROWebService_ReleaseSOAPFault.xsd
Definition	
Sample	SROWebService_ReleaseSOAPFault.xml
Next	Release Error Codes

5. Release Error Codes

Introduction	This section provides a list of the error codes, their meaning, and possible corrective action.
	These codes are generated by the application that is processing the release request. Syntactical errors will be generated by the Release Fault exchange and are not covered here.
Error Codes	The technical definitions are contained in the following file: <u>https://www.cn.ca/-</u> <u>/media/Files/Customer-Centre/Customer-Centre-</u> <u>Documents/automated-railcar-release-error-codes-en.pdf</u>