

Ryder Transportation

Electronic Data Interchange

EDI 310

Ocean Carrier Freight Invoice

Version 004010

Document: Version: 1.1

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EDI Services

310 Ocean Carrier Freight Invoice Transaction Set – Introduction

Ryder uses the EDI 310 to provide detail information for charges for services rendered by an ocean carrier. The EDI 310 will contain the billing information of the shipment.

Functional Acknowledgement

Ryder will respond to the receipt of each EDI 310 Interchange with an EDI 997. The EDI 997 will be sent within 24 hours of the receipt of the EDI 310. Ryder requests that the carrier receive and reconcile all EDI 997's. In the event that a 997 is not received within 24 hours contact the Ryder EDI group to verify that your EDI 210 data has been received and processed.

Previous Versions

This is the first version of the EDI 310 utilized by Ryder.

310 Freight Receipt and Invoice (Ocean)

Functional Group ID=**IO**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Freight Receipt and Invoice (Ocean) Transaction Set (310) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide ocean bill of lading information. It is sent by ocean carriers to interested parties and can be used as the receipt for the shipment; to substitute for a paper bill of lading where the parties have agreed that a paper bill of lading is not necessary; to allow shipper or forwarder to verify bill of lading information before an original is printed and released; for information purposes, i.e., as a bill of lading copy; by the carrier to convey manifest information to a terminal operator; and as an invoice for freight.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	B3	Beginning Segment for Carrier's Invoice	M	1		
	030	B2A	Set Purpose	O	1		
M	060	N9	Reference Identification	M	15		
M	070	V1	Vessel Identification	M	2		
	100	C2	Bank ID	O	1		
M	110	C3	Currency	M	1		
M	120	Y2	Container Details	M	10		
LOOP ID - N1							
M	130	N1	Name	M	1		
	140	N2	Additional Name Information	O	1		
M	150	N3	Address Information	M	2		
M	160	N4	Geographic Location	M	1		
LOOP ID - R4							
M	180	R4	Port or Terminal	M	1		
M	190	DTM	Date/Time Reference	M	15		
	200	R2	Route Information	O	13		
M	230	L5	Description, Marks and Numbers	M	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - LX							
M	010	LX	Assigned Number	M	1		
LOOP ID - N7							
M	020	N7	Equipment Details	M	1		999
M	050	M7	Seal Numbers	M	5		
LOOP ID - L1							
M	070	L1	Rate and Charges	M	1		20
	080	C3	Currency	O	1		

	090	L7	Tariff Reference	O	1	
	120	N9	Reference Identification	O	3	
						10
						120
	130	H1	Hazardous Material	O	1	
	140	H2	Additional Hazardous Material Description	O	10	
						20
M	150	L0	Line Item - Quantity and Weight	M	1	
M	160	L5	Description, Marks and Numbers	M	999	
						20
M	170	L1	Rate and Charges	M	1	
	180	C3	Currency	O	1	

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	L3	Total Weight and Charges	M	1		
	050	V9	Event Detail	O	10		
M	080	SE	Transaction Set Trailer	M	1		

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment: **B3** Beginning Segment for Carrier's Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit basic data relating to the carrier's invoice
Syntax Notes: 1 If either B309 or B310 is present, then the other is required.
Semantic Notes: 1 B306 is the billing date.
 2 On collect freight bills the data in B309 will be the actual delivery date. For the shipments invoiced prior to delivery, the B309 will be the estimated date of delivery.
 3 If B314 is used, B304 will indicate the party or parties responsible for payment of the transportation terms identified in B314.

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	B302	76	Invoice Number Identifying number assigned by issuer	M AN 1/22
M	B303	145	Shipment Identification Number Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)	M AN 1/30
M	B304	146	Shipment Method of Payment Code identifying payment terms for transportation charges CC Collect PP Prepaid (by Seller) TP Third Party Pay	M ID 2/2
M	B306	373	Date Date expressed as CCYYMMDD	M DT 8/8
M	B307	193	Net Amount Due Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified	M N2 1/12
	B308	202	Correction Indicator Code used to indicate that the transaction set contains information which corrects previous information BD Balance Due Billing To be used only for short paid or supplemental invoice.	O ID 2/2
M	B309	32	Delivery Date Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD	M DT 8/8
M	B310	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 035 Delivered	M ID 3/3
M	B311	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	M ID 2/4
	B312	373	Date Date expressed as CCYYMMDD	O DT 8/8
	B313	375	Tariff Service Code Code specifying the types of services for rating purposes	O ID 2/2
	B314	335	Transportation Terms Code	O ID 3/3

Code identifying the trade terms which apply to the shipment transportation responsibility

Segment: **B2A** Set Purpose
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To allow for positive identification of transaction set purpose
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	B2A01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
	B2A02	346	Application Type Code identifying an application	O ID 2/2

Segment: **N9 Reference Identification**
Position: 060
Loop:
Level: Heading
Usage: Mandatory
Max Use: 15
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **V1** Vessel Identification
Position: 070
Loop:
Level: Heading
Usage: Mandatory
Max Use: 2
Purpose: To provide vessel details and voyage number
Syntax Notes: 1 At least one of V101 or V102 is required.
 2 If V108 is present, then V101 is required.
Semantic Notes: 1 V103 is the code identifying the country in which the ship (vessel) is registered.
 2 V105 identifies the ocean carrier.
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
V101	597	Vessel Code Code identifying vessel	X ID 1/8
V102	182	Vessel Name Name of ship as documented in "Lloyd's Register of Ships"	X AN 2/28

Segment: C2 Bank ID
Position: 100
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify data required for electronic payment
Syntax Notes:
Semantic Notes:
Comments: 1 C207 is the effective payment date.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
C201	8	Bank Client Code Code identifying payee or payer	O ID 1/1
C202	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	O ID 1/2
C203	67	Identification Code Code identifying a party or other code	O AN 2/80

Segment: C3 Currency
Position: 110
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify the currency being used in the transaction set
Syntax Notes:
Semantic Notes:

- 1 C301 is the billing currency.
- 2 C303 is the payment currency.
- 3 C304 is the rated currency.

Comments:

- 1 Currency is implied by the code for the country in whose currency the monetary amounts are specified.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	C301	100 Currency Code	M ID 3/3 Code (Standard ISO) for country in whose currency the charges are specified
	C302	280 Exchange Rate	O R 4/10 Value to be used as a multiplier conversion factor to convert monetary value from one currency to another
	C303	100 Currency Code	O ID 3/3 Code (Standard ISO) for country in whose currency the charges are specified
	C304	100 Currency Code	O ID 3/3 Code (Standard ISO) for country in whose currency the charges are specified

Segment: **Y2** Container Details
Position: 120
Loop:
Level: Heading
Usage: Mandatory
Max Use: 10
Purpose: To specify container information and transportation service to be used
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	Y201	95	Number of Containers Number of shipping containers	M N0 1/4
	Y202	78	Container Type Request Code Code indicating type of container equipment requested	O ID 1/1
	Y203	56	Type of Service Code Code specifying extent of transportation service requested	O ID 2/2
M	Y204	24	Equipment Type Code identifying equipment type	M ID 4/4
	Y205	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment	O ID 1/2
	Y206	177	Intermodal Service Code Code identifying the Intermodal Service Plan	O ID 1/2
	Y207	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O ID 2/4
	Y208	464	Container Terms Code Code indicating origin and destination of transportation and type of container	O ID 3/3
	Y209	465	Container Terms Code Qualifier Code indicating container terms reference	O ID 1/1
	Y210	466	Total Stop-offs Total number of stop-offs specified for a shipment	O N0 1/2

Segment: **N1** Name
Position: 130
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
M	N102	93	Name Free-form name	M AN 1/60
	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2
	N104	67	Identification Code Code identifying a party or other code	X AN 2/80

Segment: N2 Additional Name Information
Position: 140
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	N201	93 Name Free-form name	M AN 1/60
	N202	93 Name Free-form name	O AN 1/60

Segment: N3 Address Information
Position: 150
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location**
Position: 160
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
M	N401	19 City Name Free-form text for city name	M AN 2/30
M	N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M ID 2/2
M	N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M ID 3/15
M	N404	26 Country Code Code identifying the country	M ID 2/3

Segment: **R4 Port or Terminal**
Position: 180
Loop: R4 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: Contractual or operational port or point relevant to the movement of the cargo
Syntax Notes: 1 If either R402 or R403 is present, then the other is required.
Semantic Notes:
Comments: 1 R4 is required for each port to be identified.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	R401	115	Port or Terminal Function Code Code defining function performed at the port or terminal with respect to a shipment D Port of Discharge (Operational) Port at which cargo is unloaded from vessel E Place of Delivery (Contractual) Place at which cargo leaves its care and custody of carrier L Port of Loading (Operational) Port at which cargo is loaded on vessel R Place of Receipt (Contractual) Place at which cargo enters the care and custody of carrier	M ID 1/1
M	R402	309	Location Qualifier Code identifying type of location	M ID 1/2
M	R403	310	Location Identifier Code which identifies a specific location	M AN 1/30
M	R404	114	Port Name Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property	M AN 2/24
	R405	26	Country Code Code identifying the country	O ID 2/3
	R406	174	Terminal Name Free-form field for terminal name	O AN 2/30
	R407	113	Pier Number Identifying number for the pier	O AN 1/4
	R408	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2

Segment: **DTM** **Date/Time Reference**
Position: 190
Loop: R4 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 15
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped	M ID 3/3
M	DTM02	373	Date Date expressed as CCYYMMDD	M DT 8/8
	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	O TM 4/8
	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2

Segment: **R2** Route Information
Position: 200
Loop:
Level: Heading
Usage: Optional
Max Use: 13
Purpose: To specify carrier and routing sequences and details
Syntax Notes: 1 If R208 is present, then R207 is required.
Semantic Notes: 1 R203 is the station or city name at which carriers interchange shipments.
 2 R210 is the billing date.
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	R201	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	M ID 2/4
M	R202	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement	M ID 1/2
	R203	19	City Name Free-form text for city name	O AN 2/30
	R204	154	Standard Point Location Code Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O ID 6/9
	R205	177	Intermodal Service Code Code identifying the Intermodal Service Plan	O ID 1/2
	R206	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment	O ID 1/2
	R207	296	Intermediate Switch Carrier Code defining a road which neither originates nor terminates the shipment but provides a switching service between two roadhaul rail carriers (SCAC code for rail switch carrier)	X ID 2/4
	R208	296	Intermediate Switch Carrier Code defining a road which neither originates nor terminates the shipment but provides a switching service between two roadhaul rail carriers (SCAC code for rail switch carrier)	O ID 2/4
	R209	76	Invoice Number Identifying number assigned by issuer	O AN 1/22
	R210	373	Date Date expressed as CCYYMMDD	O DT 8/8
	R211	369	Free-form Description Free-form descriptive text	O AN 1/45
	R212	56	Type of Service Code Code specifying extent of transportation service requested	O ID 2/2
	R213	742	Route Description Point to point routing description	O AN 1/35

Segment: **L5** Description, Marks and Numbers
Position: 230
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers

Syntax Notes:
 1 If either L503 or L504 is present, then the other is required.
 2 If L507 is present, then L506 is required.
 3 If either L508 or L509 is present, then the other is required.

Semantic Notes:
Comments: 1 L502 may be used to send quantity information as part of the product description.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	L501	213	Lading Line Item Number	M N0 1/3
			Sequential line number for a lading item	
M	L502	79	Lading Description	M AN 1/50
			Description of an item as required for rating and billing purposes	
	L503	22	Commodity Code	X AN 1/30
			Code describing a commodity or group of commodities	
	L504	23	Commodity Code Qualifier	X ID 1/1
			Code identifying the commodity coding system used for Commodity Code	
	L505	103	Packaging Code	O AN 3/5
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	
	L506	87	Marks and Numbers	X AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment	
	L507	88	Marks and Numbers Qualifier	O ID 1/2
			Code specifying the application or source of Marks and Numbers (87)	
	L508	23	Commodity Code Qualifier	X ID 1/1
			Code identifying the commodity coding system used for Commodity Code	
	L509	22	Commodity Code	X AN 1/30
			Code describing a commodity or group of commodities	
	L510	595	Compartment ID Code	O ID 1/1
			Code identifying the compartment in a compartmentalized tank car	

Segment: LX Assigned Number
Position: 010
Loop: LX Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> LX01	<u>Element</u> 554	<u>Assigned Number</u> Number assigned for differentiation within a transaction set	M N0 1/6

Segment: N7 Equipment Details
Position: 020
Loop: N7 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify the equipment
Syntax Notes:

- 1 If either N703 or N704 is present, then the other is required.
- 2 If either N705 or N716 is present, then the other is required.
- 3 If either N708 or N709 is present, then the other is required.

Semantic Notes:

- 1 N712 is the owner of the equipment.
- 2 N723 is the operator or carrier of the rights of the equipment.

Comments:

- 1 N701 is mandatory for rail transactions.
- 2 N720 and N721 are expressed in inches.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
	N701	206 Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	O AN 1/4
M	N702	207 Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	M AN 1/10
	N703	81 Weight Numeric value of weight	X R 1/10
	N704	187 Weight Qualifier Code defining the type of weight	X ID 1/2
	N705	167 Tare Weight Weight of the equipment	X N0 3/8
	N706	232 Weight Allowance Allowance made for increased weight due to such factors as snow	O N0 2/6
	N707	205 Dunnage Weight of material used to protect lading (even bracings, false floors, etc.)	O N0 1/6
	N708	183 Volume Value of volumetric measure	X R 1/8
	N709	184 Volume Unit Qualifier Code identifying the volume unit	X ID 1/1
	N710	102 Ownership Code Code indicating the relationship of equipment to carrier or ownership of equipment	O ID 1/1
M	N711	40 Equipment Description Code Code identifying type of equipment used for shipment	M ID 2/2
	N712	140 Standard Carrier Alpha Code Standard Carrier Alpha Code	O ID 2/4
	N713	319 Temperature Control Free-form abbreviation of temperature range or flash-point temperature	O AN 3/6
	N714	219 Position Relative position of shipment in car, trailer, or container (mutually defined)	O AN 1/3
	N715	567 Equipment Length Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)	O N0 4/5

	N716	571	Tare Qualifier Code Code identifying the type of tare	X	ID 1/1
	N717	188	Weight Unit Code Code specifying the weight unit	O	ID 1/1
	N718	761	Equipment Number Check Digit Number which designates the check digit applied to a piece of equipment	O	N0 1/1
	N719	56	Type of Service Code Code specifying extent of transportation service requested	O	ID 2/2
	N720	65	Height Vertical dimension of an object measured when the object is in the upright position	O	R 1/8
	N721	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	O	R 1/8
M	N722	24	Equipment Type Code identifying equipment type	M	ID 4/4
	N723	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	ID 2/4
	N724	301	Car Type Code Code specifying type of rail car or intermodal equipment type and its general characteristics	O	ID 1/4

Segment: **M7 Seal Numbers**
Position: 050
Loop: N7 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 5
Purpose: To record seal numbers used and the organization that applied the seals
Syntax Notes:
Semantic Notes:
Comments: 1 M705 indicates the name of the organization which applied the seal(s).

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
M	M701	225	Seal Number Unique number on seal used to close a shipment	M AN 2/15
	M702	225	Seal Number Unique number on seal used to close a shipment	O AN 2/15
	M703	225	Seal Number Unique number on seal used to close a shipment	O AN 2/15
	M704	225	Seal Number Unique number on seal used to close a shipment	O AN 2/15
	M705	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O ID 2/3

Segment: **L1 Rate and Charges**

Position: 070

Loop: L1 Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

Syntax Notes: 1 If either L102 or L103 is present, then the other is required.

2 At least one of L104 L105 or L106 is required.

3 If either L114 or L115 is present, then the other is required.

4 If either L117 or L118 is present, then the other is required.

Semantic Notes: 1 L119 is the percent used to determine the charge in L104.

2 L120, if used, indicates the currency for all monetary amounts in this L1 segment.

3 L121 is the origin rated as charge amount.

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	L101	213	Lading Line Item Number Sequential line number for a lading item	M N0 1/3
	L102	60	Freight Rate Rate that applies to the specific commodity	X R 1/9
	L103	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value	X ID 2/2
M	L104	58	Charge For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified	M N2 1/12
M	L108	150	Special Charge or Allowance Code Code identifying type of special charge or allowance	M ID 3/3

Segment: C3 Currency
Position: 080
Loop: L1 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the currency being used in the transaction set
Syntax Notes:
Semantic Notes:

- 1 C301 is the billing currency.
- 2 C303 is the payment currency.
- 3 C304 is the rated currency.

Comments:

- 1 Currency is implied by the code for the country in whose currency the monetary amounts are specified.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	C301	100 Currency Code	M ID 3/3
		Code (Standard ISO) for country in whose currency the charges are specified	
	C302	280 Exchange Rate	O R 4/10
		Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	
	C303	100 Currency Code	O ID 3/3
		Code (Standard ISO) for country in whose currency the charges are specified	
	C304	100 Currency Code	O ID 3/3
		Code (Standard ISO) for country in whose currency the charges are specified	

Segment: **L7** **Tariff Reference**
Position: 090
Loop: N7 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference details of the tariff used to arrive at applicable rates or charge
Syntax Notes:
Semantic Notes:

- 1 L710 is the effective date.
- 2 In L715 and L716, "City" and "State" are used for rate combination city and state.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	L701	213	Lading Line Item Number Sequential line number for a lading item	M N0 1/3
	L707	59	Freight Class Code Code indicating generalized classification that applies to one or more items in the shipment, i.e., class 70, 77.5, etc.	O AN 2/5

Segment: **N9 Reference Identification**
Position: 120
Loop: N7 Mandatory
Level: Detail
Usage: Optional
Max Use: 3
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
	N903	369	Free-form Description Free-form descriptive text	O AN 1/45

Segment: **H1 Hazardous Material**
Position: 130
Loop: H1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify information relative to hazardous material
Syntax Notes: 1 If either H107 or H108 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is required when the shipment contains hazardous material.
2 H107 is the lowest temperature for hazardous materials.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	H101	62	Hazardous Material Code Code relating to hazardous material code qualifier for regulated hazardous materials	M AN 4/10
	H102	209	Hazardous Material Class Code Code specifying the kind of hazard for a material	O AN 1/4
	H103	208	Hazardous Material Code Qualifier Code which qualifies the Hazardous Material Class Code (209)	O ID 1/1
	H104	64	Hazardous Material Description Material name, special instructions, and phone number if any	O AN 2/30
	H105	63	Hazardous Material Contact Phone number and name of person or department to contact in case of emergency	O AN 1/24
	H106	200	Hazardous Materials Page The United Nations page number as required for the international transport of hazardous materials	O AN 1/6
	H107	77	Flashpoint Temperature The flashpoint temperature for hazardous material	X N 1/3
	H108	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X ID 2/2
	H109	254	Packing Group Code Code indicating degree of danger in terms of Roman number I, II or III	O ID 1/3

Segment: **H2** Additional Hazardous Material Description
Position: 140
Loop: H1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify free-form hazardous material descriptive data in addition to the information provided in the H1 segment

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	H201	64	Hazardous Material Description Material name, special instructions, and phone number if any	M AN 2/30
	H202	274	Hazardous Material Classification Free-form description of hazardous material classification or division or label requirements	O AN 1/30

Segment: **L0** Line Item - Quantity and Weight
Position: 150
Loop: L0 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

- Syntax Notes:**
- 1 If either L002 or L003 is present, then the other is required.
 - 2 If either L004 or L005 is present, then the other is required.
 - 3 If either L006 or L007 is present, then the other is required.
 - 4 If either L008 or L009 is present, then the other is required.
 - 5 If L011 is present, then L004 is required.
 - 6 If either L013 or L015 is present, then the other is required.

- Semantic Notes:**
- 1 L008 is the number of handling units of the line item tendered to the carrier.
 - 2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.
 - 3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.

- Comments:**
- 1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	L001	213	Lading Line Item Number Sequential line number for a lading item	M N0 1/3
	L002	220	Billed/Rated-as Quantity Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81	O R 1/11
	L003	221	Billed/Rated-as Qualifier Code identifying the type of quantity or value on which the rate or item pricing is based	O ID 2/2
M	L004	81	Weight Numeric value of weight	M R 1/10
M	L005	187	Weight Qualifier Code defining the type of weight	M ID 1/2
	L006	183	Volume Value of volumetric measure	O R 1/8
	L007	184	Volume Unit Qualifier Code identifying the volume unit	O ID 1/1
	L008	80	Lading Quantity Number of units (pieces) of the lading commodity	O N0 1/7
	L009	211	Packaging Form Code Code for packaging form of the lading quantity	X ID 3/3
M	L011	188	Weight Unit Code Code specifying the weight unit	M ID 1/1

Segment: **L5** Description, Marks and Numbers
Position: 160
Loop: L0 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 999
Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers

- Syntax Notes:**
- 1 If either L503 or L504 is present, then the other is required.
 - 2 If L507 is present, then L506 is required.
 - 3 If either L508 or L509 is present, then the other is required.

Semantic Notes:

- Comments:**
- 1 L502 may be used to send quantity information as part of the product description.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	L501	213	Lading Line Item Number Sequential line number for a lading item	M N0 1/3
M	L502	79	Lading Description Description of an item as required for rating and billing purposes	M AN 1/50
	L503	22	Commodity Code Code describing a commodity or group of commodities	X AN 1/30
	L504	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code	X ID 1/1
	L505	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	O AN 3/5

Segment: **L1 Rate and Charges**
Position: 170
Loop: L1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements
Syntax Notes:

- 1 If either L102 or L103 is present, then the other is required.
- 2 At least one of L104 L105 or L106 is required.
- 3 If either L114 or L115 is present, then the other is required.
- 4 If either L117 or L118 is present, then the other is required.

Semantic Notes:

- 1 L119 is the percent used to determine the charge in L104.
- 2 L120, if used, indicates the currency for all monetary amounts in this L1 segment.
- 3 L121 is the origin rated as charge amount.

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	L101	213 Lading Line Item Number Sequential line number for a lading item	M N0 1/3
	L102	60 Freight Rate Rate that applies to the specific commodity	X R 1/9
	L103	122 Rate/Value Qualifier Code qualifying how to extend charges or interpret value	X ID 2/2
M	L104	58 Charge For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified	M N2 1/12
	L105	191 Advances Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified	X N2 1/9
	L106	117 Prepaid Amount Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified	X N2 1/9
	L107	120 Rate Combination Point Code The code denoting the connecting station for a joint rate obtained by combining two or more published rates which are used for the calculation of transportation charges	O AN 3/9
M	L108	150 Special Charge or Allowance Code Code identifying type of special charge or allowance	M ID 3/3
	L109	121 Rate Class Code Code identifying specifically designated class of goods; Note: For international air shipments, see IATA Resolution 600k	O ID 1/3
	L113	257 Tariff Application Code Code indicating to which traffic a tariff applies	O ID 1/1
	L114	74 Declared Value Monetary assigned value expressed in the standard monetary denomination for the currency specified	X N2 2/12
	L115	122 Rate/Value Qualifier Code qualifying how to extend charges or interpret value	X ID 2/2

Segment: C3 Currency
Position: 180
Loop: L1 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the currency being used in the transaction set
Syntax Notes:
Semantic Notes:

- 1 C301 is the billing currency.
- 2 C303 is the payment currency.
- 3 C304 is the rated currency.

Comments:

- 1 Currency is implied by the code for the country in whose currency the monetary amounts are specified.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	C301	100 Currency Code	M ID 3/3
		Code (Standard ISO) for country in whose currency the charges are specified	
	C302	280 Exchange Rate	O R 4/10
		Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	
	C303	100 Currency Code	O ID 3/3
		Code (Standard ISO) for country in whose currency the charges are specified	
	C304	100 Currency Code	O ID 3/3
		Code (Standard ISO) for country in whose currency the charges are specified	

Segment: **L3 Total Weight and Charges**

Position: 010

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

- Syntax Notes:**
- 1 If either L301 or L302 is present, then the other is required.
 - 2 If either L303 or L304 is present, then the other is required.
 - 3 If either L309 or L310 is present, then the other is required.
 - 4 If L312 is present, then L301 is required.
 - 5 If either L314 or L315 is present, then the other is required.

Semantic Notes: 1 L305 is the total charges.

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	L301	81	Weight Numeric value of weight	M R 1/10
M	L302	187	Weight Qualifier Code defining the type of weight	M ID 1/2
M	L305	58	Charge For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified	M N2 1/12
	L309	183	Volume Value of volumetric measure	X R 1/8
	L310	184	Volume Unit Qualifier Code identifying the volume unit	X ID 1/1
M	L311	80	Lading Quantity Number of units (pieces) of the lading commodity	M N0 1/7
M	L312	188	Weight Unit Code Code specifying the weight unit	M ID 1/1
	L313	171	Tariff Number Standard tariff number for the tariff which governs the rates applied to the commodity item(s)	O AN 1/7
	L314	74	Declared Value Monetary assigned value expressed in the standard monetary denomination for the currency specified	X N2 2/12

Segment: **V9** Event Detail
Position: 050
Loop:
Level: Summary
Usage: Optional
Max Use: 10
Purpose: To specify information about a specific event
Syntax Notes:

- 1 If either V910 or V911 is present, then the other is required.
- 2 If V913 is present, then V904 is required.
- 3 If V915 is present, then V909 is required.

Semantic Notes:

- 1 V903 is the event date.
- 2 V904 is the event time.
- 3 V909 is the Standard Point Location Code (SPLC) of the event shown in the V901.
- 4 V910 is the length of the time delay expressed in hours.
- 5 V913 reflects the time zone which the event time reflects.
- 6 V914 is the quantity of the fuel in gallons.
- 7 V915 is the Standard Point Location Code (SPLC) of the secondary point of the delay indicated in the V911.
- 8 V916 is the total number of rail cars associated with the event code in V901.
- 9 V917 is the total number of loaded cars associated with the event code in V901.
- 10 V918 is the total number of empty cars associated with the event code in V901.
- 11 V919 is the total Gross Tons of the cars identified in V916. Includes the gross weight of the loads and the tare weight of the empties.
- 12 V920 is the total outside foot length of the cars identified in V916, rounded off to the nearest foot.

Comments:

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	V901	304 Event Code	M ID 3/3
		Code identifying the event about which a report is made	
	V902	106 Event	O AN 1/25
		Free-form description of event	
	V903	373 Date	O DT 8/8
		Date expressed as CCYYMMDD	
	V904	337 Time	X TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
	V905	19 City Name	O AN 2/30
		Free-form text for city name	
	V906	156 State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
	V907	26 Country Code	O ID 2/3
		Code identifying the country	
	V908	641 Status Reason Code	O ID 3/3
		Code indicating the status reason	
	V909	154 Standard Point Location Code	X ID 6/9
		Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	

V910	380	Quantity Numeric value of quantity	X R 1/15
V911	1274	Train Delay Reason Code Code specifying reason for train delay	X AN 2/2
V912	61	Free-Form Message Free-form information	O AN 1/30
V913	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2
V914	380	Quantity Numeric value of quantity	O R 1/15
V915	154	Standard Point Location Code Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O ID 6/9
V916	86	Total Equipment Total pieces of equipment	O N0 1/3
V917	86	Total Equipment Total pieces of equipment	O N0 1/3
V918	86	Total Equipment Total pieces of equipment	O N0 1/3
V919	81	Weight Numeric value of weight	O R 1/10
V920	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	O R 1/8

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9