

# Ryder Transportation EDI

## Electronic Data Interchange

# EDI 410

## Rail Carrier Freight Invoice

Version 004010

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EDI Services

# 410 Rail Carrier Freight Details and Invoice

Functional Group ID=**IR**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Rail Carrier Freight Details and Invoice Transaction Set (410) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide detailed information of charges associated with a rail movement. The information is provided by a rail carrier and is sent to the freight payer.

	<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	B3B	Beginning Segment for Carrier's Invoice	M	1		
	030	C4	Alternate Amount Due	O	1		
	040	N9	Reference Identification	O	30		
						500	
M	050	N7	Equipment Details	M	1		
	070	G4	Scale Identification	O	1		
	080	M7	Seal Numbers	O	5		
	090	N5	Equipment Ordered	O	1		
M	130	N8	Waybill Reference	M	499		
M	140	F9	Origin Station	M	1		
M	150	D9	Destination Station	M	1		
						10	
M	160	N1	Name	M	1		
	165	N2	Additional Name Information	O	2		
M	170	N3	Address Information	M	2		
M	180	N4	Geographic Location	M	1		
	400	R2	Route Information	O	13		
						25	
M	430	LX	Assigned Number	M	1		
M	440	L5	Description, Marks and Numbers	M	15		
						25	
M	460	L0	Line Item - Quantity and Weight	M	1		
M	470	L1	Rate and Charges	M	10		
M	540	L3	Total Weight and Charges	M	1		
M	570	SE	Transaction Set Trailer	M	1		

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:**  
**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	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set	M ID 3/3
M	ST02	329	<b>Transaction Set Control Number</b> 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:** **B3B** Beginning Segment for Carrier's Invoice  
**Position:** 020  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set  
**Syntax Notes:**  
**Semantic Notes:**

- 1 B3B03 is the billing date.
- 2 B3B05 is the payment due date.
- 3 B3B11 defines the currency used in the transaction.

**Comments:**

- 1 The B3B09 default value is pounds.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	B3B01	76	<b>Invoice Number</b> Identifying number assigned by issuer	M AN 1/15
M	B3B02	146	<b>Shipment Method of Payment</b> Code identifying payment terms for transportation charges CC           Collect PP           Prepaid (by Seller) TP           Third Party Pay	M ID 2/2
M	B3B03	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8
M	B3B04	193	<b>Net Amount Due</b> 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
	B3B05	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
M	B3B06	140	<b>Standard Carrier Alpha Code</b> Standard Carrier Alpha Code	M ID 2/4
M	B3B07	91	<b>Transportation Method/Type Code</b> Code specifying the method or type of transportation for the shipment	M ID 1/2
	B3B08	145	<b>Shipment Identification Number</b> 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)	O AN 1/30
	B3B09	188	<b>Weight Unit Code</b> Code specifying the weight unit K           Kilograms L           Pounds	O ID 1/1
	B3B10	202	<b>Correction Indicator</b> Code used to indicate that the transaction set contains information which corrects previous information BD           Balance Due Billing	O ID 2/2
	B3B11	100	<b>Currency Code</b> Code (Standard ISO) for country in whose currency the charges are specified	O ID 3/3

**Segment:** C4 Alternate Amount Due  
**Position:** 030  
**Loop:**  
**Level:**  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify alternate payment  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u></b>		
M	C401	100	<b>Currency Code</b> Code (Standard ISO) for country in whose currency the charges are specified	<b>M ID 3/3</b>
M	C402	193	<b>Net Amount Due</b> Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified	<b>M N2 1/12</b>

**Segment:** N9 Reference Identification  
**Position:** 040  
**Loop:**  
**Level:**  
**Usage:** Optional  
**Max Use:** 30  
**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	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	M ID 2/3
M	N902	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
	N903	369	<b>Free-form Description</b> Free-form descriptive text	X AN 1/45
	N904	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
	N905	337	<b>Time</b> 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)	X TM 4/8
	N906	623	<b>Time Code</b> 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
	N907	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
M	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	M ID 2/3
M	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X ID 2/3
	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X ID 2/3
	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as	X AN 1/30

specified by the Reference Identification Qualifier

**Segment:** N7 Equipment Details  
**Position:** 050  
**Loop:** N7 Mandatory  
**Level:**  
**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

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
N701	206	<b>Equipment Initial</b>	C	AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number		
M	N702	<b>Equipment Number</b>	M	AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)		
	N703	<b>Weight</b>	X	R 1/10
		Numeric value of weight		
	N704	<b>Weight Qualifier</b>	X	ID 1/2
		Code defining the type of weight		
	N705	<b>Tare Weight</b>	X	N0 3/8
		Weight of the equipment		
	N706	<b>Weight Allowance</b>	O	N0 2/6
		Allowance made for increased weight due to such factors as snow		
	N707	<b>Dunnage</b>	O	N0 1/6
		Weight of material used to protect lading (even bracings, false floors, etc.)		
	N708	<b>Volume</b>	X	R 1/8
		Value of volumetric measure		
	N709	<b>Volume Unit Qualifier</b>	X	ID 1/1
		Code identifying the volume unit		
	N710	<b>Ownership Code</b>	O	ID 1/1
		Code indicating the relationship of equipment to carrier or ownership of equipment		
	N711	<b>Equipment Description Code</b>	O	ID 2/2
		Code identifying type of equipment used for shipment		
	N712	<b>Standard Carrier Alpha Code</b>	O	ID 2/4
		Standard Carrier Alpha Code		
	N713	<b>Temperature Control</b>	O	AN 3/6
		Free-form abbreviation of temperature range or flash-point temperature		
	N714	<b>Position</b>	O	AN 1/3
		Relative position of shipment in car, trailer, or container (mutually defined)		
	N715	<b>Equipment Length</b>	O	N0 4/5
		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)		
	N716	<b>Tare Qualifier Code</b>	X	ID 1/1

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

**Segment:** **G4 Scale Identification**  
**Position:** 070  
**Loop:** N7 Mandatory  
**Level:**  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify the scale type and the location and time a shipment is weighed  
**Syntax Notes:**  
**Semantic Notes:** 1 G404 is the event date.  
 2 G405 is the event time.  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	G401	19	City Name Free-form text for city name	M AN 2/30
M	G402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M ID 2/2
	G403	459	Name (30 Character Format) Free-form organization name or official title as it should appear for mailing address	O AN 2/30
M	G404	373	Date Date expressed as CCYYMMDD	M DT 8/8
	G405	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
	G406	570	Scale Type Code Code identifying the type of scale	O ID 1/1

**Segment:** **M7 Seal Numbers**  
**Position:** 080  
**Loop:** N7 Mandatory  
**Level:**  
**Usage:** Optional  
**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**

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

**Segment:** N5 Equipment Ordered  
**Position:** 090  
**Loop:** N7 Mandatory  
**Level:**  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify carrier equipment  
**Syntax Notes:** 1 If either N507 or N508 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 N506 is expressed in inches.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N501	567	<b>Equipment Length</b> 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
N502	233	<b>Weight Capacity</b> Capacity of car ordered (stated in 1000 pound units or 1000 kilogram units)	O N0 2/3
N503	203	<b>Cubic Capacity</b> Capacity of car ordered (cubic feet unless otherwise specified)	O N0 2/4
N504	301	<b>Car Type Code</b> Code specifying type of rail car or intermodal equipment type and its general characteristics	O ID 1/4
N505	216	<b>Metric Qualifier</b> Code used to indicate that measurements are given in metric units	O ID 1/1
N506	65	<b>Height</b> Vertical dimension of an object measured when the object is in the upright position	O R 1/8
N507	643	<b>Lading Percentage</b> Commodity percentage for rating	X N2 2/4
N508	644	<b>Lading Percent Qualifier</b> Code identifying type of lading percentage	X ID 1/1
N509	40	<b>Equipment Description Code</b> Code identifying type of equipment used for shipment	O ID 2/2

**Segment:** **N8** Waybill Reference  
**Position:** 130  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 499  
**Purpose:** To identify the waybill and to specify the equipment used and the destination details  
**Syntax Notes:**

- 1 If any of N803 N804 or N805 is present, then all are required.
- 2 If either N806 or N807 is present, then the other is required.
- 3 If either N808 or N809 is present, then the other is required.
- 4 If either N810 or N811 is present, then the other is required.

**Semantic Notes:**

- 1 N802 is the waybill date.
- 2 N808 is the destination station of movement.
- 3 N810 will contain destination railroad initial Standard Carrier Alpha Code (SCAC).
- 4 N811 will contain railroad destination Freight Station Accounting Code (FSAC).

**Comments:**

- 1 Waybill type should be transmitted only when the transaction set involves a multiple Car/TOFC/COFC shipment or a conveying flat car. Waybill type should not be sent on a single Car/TOFC/COFC.
- 2 N807 is the waybill date.

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element</b>		
M	N801	186 <b>Waybill Number</b>	M N0 1/6 Carrier accounting number of the waybill for the inbound movement
M	N802	373 <b>Date</b>	M DT 8/8 Date expressed as CCYYMMDD
	N803	231 <b>Cross Reference Type Code</b>	X ID 1/1 Code defining relationship of equipment to equipment cross-referenced
	N804	206 <b>Equipment Initial</b>	X AN 1/4 Prefix or alphabetic part of an equipment unit's identifying number
	N805	207 <b>Equipment Number</b>	X AN 1/10 Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)
	N806	186 <b>Waybill Number</b>	X N0 1/6 Carrier accounting number of the waybill for the inbound movement
	N807	373 <b>Date</b>	X DT 8/8 Date expressed as CCYYMMDD
	N808	19 <b>City Name</b>	X AN 2/30 Free-form text for city name
	N809	156 <b>State or Province Code</b>	X ID 2/2 Code (Standard State/Province) as defined by appropriate government agency
	N810	140 <b>Standard Carrier Alpha Code</b>	X ID 2/4 Standard Carrier Alpha Code
	N811	573 <b>Freight Station Accounting Code</b>	X ID 1/5 Code (Freight Station Accounting) (AAR Managed Code for Locations)

**Segment:** **F9** **Origin Station**  
**Position:** 140  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify the rail origin of the shipment  
**Syntax Notes:**  
**Semantic Notes:**

- 1 F902 is the origin station for movement.
- 2 F904 is the country code for the city named in the F902.
- 3 F905 is the freight station accounting code of the origin junction settlement carrier.
- 4 F908 is the Standard Point Location Code (SPLC) for the city named in the F902.
- 5 F909 is the postal code for the city named in the F902.
- 6 F910 is the Standard Point Location Code (SPLC) for the city named in the F906.
- 7 F911 is the postal code for the city named in the F906.
- 8 F912 is the country code for the city named in the F906.

**Comments:**

- 1 F905 is the freight station accounting code of the city named in F906.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
F901	573	<b>Freight Station Accounting Code</b> Code (Freight Station Accounting) (AAR Managed Code for Locations)	O ID 1/5
M	F902	19 <b>City Name</b> Free-form text for city name	M AN 2/30
M	F903	156 <b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	M ID 2/2
	F904	26 <b>Country Code</b> Code identifying the country	O ID 2/3
	F905	573 <b>Freight Station Accounting Code</b> Code (Freight Station Accounting) (AAR Managed Code for Locations)	O ID 1/5
	F906	19 <b>City Name</b> Free-form text for city name	O AN 2/30
	F907	156 <b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
	F908	154 <b>Standard Point Location Code</b> 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
	F909	116 <b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
	F910	154 <b>Standard Point Location Code</b> 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
	F911	116 <b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
	F912	26 <b>Country Code</b> Code identifying the country	O ID 2/3

**Segment:** **D9 Destination Station**  
**Position:** 150  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify the rail destination of the shipment  
**Syntax Notes:**  
**Semantic Notes:**

- 1 D902 is the destination station of movement.
- 2 D904 is the country code for the city named in the D902.
- 3 D905 is the freight station accounting code of the destination junction settlement carrier.
- 4 D908 is the Standard Point Location Code (SPLC) for the city named in the D902.
- 5 D909 is the postal code for the city names in the D902.
- 6 D910 is the Standard Point Location Code (SPLC) for the city named in the D906.
- 7 D911 is the postal code for the city named in the D906.
- 8 D912 is the country code for the city named in the D906.

**Comments:**

- 1 D905 is the freight station accounting code of the city name in D906.

#### Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
D901	573	<b>Freight Station Accounting Code</b>		<b>O ID 1/5</b>
		Code (Freight Station Accounting) (AAR Managed Code for Locations)		
M	D902	19 <b>City Name</b>		<b>M AN 2/30</b>
		Free-form text for city name		
M	D903	156 <b>State or Province Code</b>		<b>M ID 2/2</b>
		Code (Standard State/Province) as defined by appropriate government agency		
	D904	26 <b>Country Code</b>		<b>O ID 2/3</b>
		Code identifying the country		
	D905	573 <b>Freight Station Accounting Code</b>		<b>O ID 1/5</b>
		Code (Freight Station Accounting) (AAR Managed Code for Locations)		
	D906	19 <b>City Name</b>		<b>O AN 2/30</b>
		Free-form text for city name		
	D907	156 <b>State or Province Code</b>		<b>O ID 2/2</b>
		Code (Standard State/Province) as defined by appropriate government agency		
	D908	154 <b>Standard Point Location Code</b>		<b>O ID 6/9</b>
		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		
	D909	116 <b>Postal Code</b>		<b>O ID 3/15</b>
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
	D910	154 <b>Standard Point Location Code</b>		<b>O ID 6/9</b>
		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		
	D911	116 <b>Postal Code</b>		<b>O ID 3/15</b>
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
	D912	26 <b>Country Code</b>		<b>O ID 2/3</b>
		Code identifying the country		

**Segment:** **N1** Name  
**Position:** 160  
**Loop:** N1 Mandatory  
**Level:**  
**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 SH should be the origin location for the shipment CN should be the final destination location for the shipment BT Bill-to-Party CN Consignee SH Shipper	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:** 165  
**Loop:** N1 Mandatory  
**Level:**  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify additional names or those longer than 35 characters in length  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u> <u>Name</u></b>	
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:** 170  
**Loop:** N1 Mandatory  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

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

**Segment:** **N4 Geographic Location**  
**Position:** 180  
**Loop:** N1 Mandatory  
**Level:**  
**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**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
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:** **R2** Route Information  
**Position:** 400  
**Loop:**  
**Level:**  
**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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	R201	140	<b>Standard Carrier Alpha Code</b> Standard Carrier Alpha Code	M ID 2/4
M	R202	133	<b>Routing Sequence Code</b> Code describing the relationship of a carrier to a specific shipment movement	M ID 1/2
	R203	19	<b>City Name</b> Free-form text for city name	O AN 2/30
	R204	154	<b>Standard Point Location Code</b> 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	<b>Intermodal Service Code</b> Code identifying the Intermodal Service Plan	O ID 1/2
	R206	91	<b>Transportation Method/Type Code</b> Code specifying the method or type of transportation for the shipment	O ID 1/2
	R207	296	<b>Intermediate Switch Carrier</b> 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	<b>Intermediate Switch Carrier</b> 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	<b>Invoice Number</b> Identifying number assigned by issuer	O AN 1/22
	R210	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
	R211	369	<b>Free-form Description</b> Free-form descriptive text	O AN 1/45
	R212	56	<b>Type of Service Code</b> Code specifying extent of transportation service requested	O ID 2/2
	R213	742	<b>Route Description</b> Point to point routing description	O AN 1/35

**Segment:** LX Assigned Number  
**Position:** 430  
**Loop:** LX Mandatory  
**Level:**  
**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:** **L5** Description, Marks and Numbers

**Position:** 440

**Loop:** LX Mandatory

**Level:**

**Usage:** Mandatory

**Max Use:** 15

**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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	L501	213	<b>Lading Line Item Number</b> Sequential line number for a lading item	M N0 1/3
M	L502	79	<b>Lading Description</b> Description of an item as required for rating and billing purposes	M AN 1/50
	L504	23	<b>Commodity Code Qualifier</b> Code identifying the commodity coding system used for Commodity Code	X ID 1/1
	L506	87	<b>Marks and Numbers</b> Marks and numbers used to identify a shipment or parts of a shipment	X AN 1/48
	L507	88	<b>Marks and Numbers Qualifier</b> Code specifying the application or source of Marks and Numbers (87)	O ID 1/2

**Segment:** **L0** Line Item - Quantity and Weight  
**Position:** 460  
**Loop:** L0 Mandatory  
**Level:**  
**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

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

**Segment:** **L1 Rate and Charges**

**Position:** 470

**Loop:** L0 Mandatory

**Level:**

**Usage:** Mandatory

**Max Use:** 10

**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>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	L101	213	<b>Lading Line Item Number</b> Sequential line number for a lading item	M N0 1/3
	L102	60	<b>Freight Rate</b> Rate that applies to the specific commodity	X R 1/9
	L103	122	<b>Rate/Value Qualifier</b> Code qualifying how to extend charges or interpret value	X ID 2/2
M	L104	58	<b>Charge</b> 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	<b>Special Charge or Allowance Code</b> Code identifying type of special charge or allowance	M ID 3/3
	L109	121	<b>Rate Class Code</b> Code identifying specifically designated class of goods; Note: For international air shipments, see IATA Resolution 600k	O ID 1/3
	L113	257	<b>Tariff Application Code</b> Code indicating to which traffic a tariff applies	O ID 1/1
	L114	74	<b>Declared Value</b> Monetary assigned value expressed in the standard monetary denomination for the currency specified	X N2 2/12
	L115	122	<b>Rate/Value Qualifier</b> Code qualifying how to extend charges or interpret value	X ID 2/2

**Segment:** **L3** Total Weight and Charges

**Position:** 540

**Loop:**

**Level:**

**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	<b>Weight</b> Numeric value of weight	M R 1/10
M	L302	187	<b>Weight Qualifier</b> Code defining the type of weight	M ID 1/2
M	L305	58	<b>Charge</b> 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	<b>Volume</b> Value of volumetric measure	X R 1/8
	L310	184	<b>Volume Unit Qualifier</b> Code identifying the volume unit	X ID 1/1
	L311	80	<b>Lading Quantity</b> Number of units (pieces) of the lading commodity	O N0 1/7
	L312	188	<b>Weight Unit Code</b> Code specifying the weight unit K Kilograms L Pounds	O ID 1/1
	L313	171	<b>Tariff Number</b> Standard tariff number for the tariff which governs the rates applied to the commodity item(s)	O AN 1/7
	L314	74	<b>Declared Value</b> Monetary assigned value expressed in the standard monetary denomination for the currency specified	X N2 2/12
	L315	122	<b>Rate/Value Qualifier</b> Code qualifying how to extend charges or interpret value	X ID 2/2

**Segment:** **SE** Transaction Set Trailer  
**Position:** 570  
**Loop:**  
**Level:**  
**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