



EDI Specifications
Version 4010 / Transaction Set 410
Freight Details and Invoice

VERSION: 1.01 DRAFT

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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		
LOOP ID - N7						500	
M	050	N7	Equipment Details	M	1		
	070	G4	Scale Identification	O	1		
M	130	N8	Waybill Reference	M	499		
M	140	F9	Origin Station	M	1		
M	150	D9	Destination Station	M	1		
LOOP ID - N1						10	
	160	N1	Name	O	1		
	170	N3	Address Information	O	2		
	180	N4	Geographic Location	O	1		
LOOP ID - S1						12	
	370	S1	Stop-off Name	O	1		
	390	S9	Stop-off Station	O	1		
	400	R2	Route Information	O	13		
LOOP ID - LX						25	
M	430	LX	Assigned Number	M	1		
M	440	L5	Description, Marks and Numbers	M	15		
LOOP ID - L0						25	
M	460	L0	Line Item - Quantity and Weight	M	1		
M	470	L1	Rate and Charges	M	10		
	480	PI	Price Authority Identification	O	30		
M	540	L3	Total Weight and Charges	M	1		
M	570	SE	Transaction Set Trailer	M	1		

ISA Interchange Control Header

Pos: Max: 1
 - Mandatory
 Loop: N/A Elements: 16

To start and identify an interchange of zero or more functional groups and interchange-related control segments

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information <u>Code NAME</u> 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2	Must use
ISA02	I02	Authorization Information Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information <u>Code NAME</u> 00 No Security Information Present (No Meaningful Information in I04)	M	ID	2/2	Must use
ISA04	I04	Security Information Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified <u>Code NAME</u> 01 Duns (Dun & Bradstreet) 02 SCAC (Standard Carrier Alpha Code)	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified <u>Code NAME</u> 01 Duns (Dun & Bradstreet) ZZ Mutually Defined	M	ID	2/2	Must use
ISA08	I07	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M	AN	15/15	Must use
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer <u>Code</u> <u>NAME</u> U U.S. EDI Community of ASC X12	M	ID	1/1	Must use
ISA12	I11	Interchange Control Version Number Description: This version number covers the interchange control segments <u>Code</u> <u>NAME</u> 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID	5/5	Must use
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) <u>Code</u> <u>NAME</u> 0 No Acknowledgment Requested	M	ID	1/1	Must use
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information <u>Code</u> <u>NAME</u> P Production Data	M	ID	1/1	Must use
ISA16	I15	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M		1/1	Must use

GS Functional Group Header

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 8

To indicate the beginning of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets <u>Code NAME</u> IR Rail Carrier Freight Details and Invoice (410)	M	ID	2/2	Must use
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners Carrier SCAC	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time Description: 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)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard <u>Code NAME</u> X Accredited Standards Committee X12	M	ID	1/2	Must use
GS08	480	Version / Release / Industry Identifier Code Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user). <u>Code NAME</u> 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	AN	1/12	Must use

Semantics:

- GS04 is the group date.

2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

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</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		<u>Code</u> <u>NAME</u>				
		410 Rail Carrier Freight Details and Invoice				
ST02	329	Transaction Set Control Number Description: 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	Must use

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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
B3B01	76	Invoice Number Identifying number assigned by issuer Pro Number/Freight Bill Invoice Number	M	AN	1/22	Must use
B3B02	146	Shipment Method of Payment Code identifying payment terms for transportation charges <u>Code NAME</u> CC Collect PP Prepaid	M	ID	2/2	Must use
B3B03	373	Date Date expressed as CCYYMMDD Pro Date/Freight Bill Invoice Date	M	DT	8/8	Must use
B3B04	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 Billed Amount	M	N2	1/12	Must use
B3B05	373	Date Date expressed as CCYYMMDD Freight Bill Invoice Due Date	O	DT	8/8	Used
B3B06	140	Standard Carrier Alpha Code Standard Carrier Alpha Code Carrier SCAC	M	ID	2/4	Must use
B3B07	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment <u>Code NAME</u> R Rail	M	ID	1/2	Must use
B3B08	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) Waybill Number/BOL Number	O	AN	1/30	Must use
B3B09	188	Weight Unit Code Code specifying the weight unit <u>Code NAME</u> L Pounds	O	ID	1/1	Used
B3B10	202	Correction Indicator Code used to indicate that the transaction set contains information which corrects previous information	O	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Original Freight Bill or				
		Code NAME				
		AD Adjusted Bill				
		BD Balance Due Bill				

B3B11	100	Currency Code	M	ID	3/3	Used
Code (Standard ISO) for country in whose currency the charges are specified						

Currency Code	Country
AFA	Afghanistan
AUD	Australia
EUR	Belgium
BRL	Brazil
CAD	Canada
CNY	China
CUP	Cuba
EGP	Egypt
EUR	France
EUR	Germany
EUR	Greece
HKD	Hong Kong
INR	India
EUR	Ireland
EUR	Italy
JPY	Japan
MXN	Mexico
EUR	Netherlands
PHP	Philippines
USD	Puerto Rico
EUR	Spain
USD	United States

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
C401	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Used
C402	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	Used

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</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	Reference Identification Qualifier Code qualifying the Reference Identification <u>Code NAME</u>	M	ID	2/3	Must use
		BM Bill of Lading Number				
		CG Consignee Order Number				
		CT Contract Number				
		PO Purchase Order Number				
		SF Mine Number				
		SO Shipper Order Number				
		TN Draft Statement Number				
		DO Delivery Order Number – V Number				
		11 Account Number				
N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
N903	369	Free-form Description Free-form descriptive text	C	AN	1/45	Not used
N904	373	Date Date expressed as CCYYMMDD BOL Date/Shipped Date (where N901 = 'BM')	O	DT	8/8	Must use
N905	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)	C	TM	4/8	Not used

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N701	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	M	AN	1/4	Used
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	Used
N703	81	Weight Numeric value of weight	C	R	1/10	Used
N704	187	Weight Qualifier Code defining the type of weight <u>Code NAME</u> N Actual Net Weight	C	ID	1/2	Used
N705	167	Tare Weight Weight of the equipment	C	N0	3/8	Used
N706	232	Weight Allowance Allowance made for increased weight due to such factors as snow	O	N0	2/6	Used
N707	205	Dunnage Weight of material used to protect lading (even bracings, false floors, etc.)	O	N0	1/6	Used
N708	183	Volume Value of volumetric measure	C	R	1/8	Used
N709	184	Volume Unit Qualifier Code identifying the volume unit Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	1/1	Used
N711	40	Equipment Description Code Code identifying type of equipment used for shipment <u>Code NAME</u> CN Container TL Trailer RR Railroad Car	O	ID	2/2	Used
N712	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	ID	2/4	Used
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	Used
N717	188	Weight Unit Code Code specifying the weight unit Refer to 0401010 Data Element Dictionary for acceptable code values.	O	ID	1/1	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N719	56	Type of Service Code Code specifying extent of transportation service requested Refer to 0401010 Data Element Dictionary for acceptable code values.	O	ID	2/2	Used
N722	24	Equipment Type Code identifying equipment type	O	ID	4/4	Used

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

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N801	186	Waybill Number Carrier accounting number of the waybill for the inbound movement	M	N0	1/6	Used
N802	373	Date Date expressed as CCYYMMDD	M	DT	8/8	Used
N803	231	Cross Reference Type Code Code defining relationship of equipment to equipment cross-referenced Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	1/1	Used
N804	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	C	AN	1/4	Used
N805	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	C	AN	1/10	Used
N806	186	Waybill Number Carrier accounting number of the waybill for the inbound movement	C	N0	1/6	Used
N807	373	Date Date expressed as CCYYMMDD	C	DT	8/8	Used
N808	19	City Name Free-form text for city name	C	AN	2/30	Used
N809	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	C	ID	2/2	Used
N810	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	C	ID	2/4	Used
N811	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	C	ID	1/5	Used

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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
F901	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O	ID	1/5	Used
F902	19	City Name Free-form text for city name	M	AN	2/30	Used
F903	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M	ID	2/2	Used
F904	26	Country Code Code identifying the country	O	ID	2/3	Used
F905	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O	ID	1/5	Used
F906	19	City Name Free-form text for city name	O	AN	2/30	Used
F907	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
F908	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	Used

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
D901	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O	ID	1/5	Used
D902	19	City Name Free-form text for city name	M	AN	2/30	Used
D903	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M	ID	2/2	Used
D904	26	Country Code Code identifying the country	O	ID	2/3	Used
D905	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O	ID	1/5	Used
D906	19	City Name Free-form text for city name	O	AN	2/30	Used
D907	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
D908	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	Used

Segment: **N1** Name

Position: 160

Loop: N1 Optional

Level: Optional

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</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		<u>Code</u> <u>NAME</u>				
		BT Bill To				
		CN Consignee				
		SH Shipper				
N102	93	Name Description: Free-form name	M	AN	1/60	Must use

Segment: **N3** Address Information
Position: 170
Loop: N1 Optional
Level:
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Must use

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name	M	AN	2/30	Must use
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	M	ID	2/2	Must use
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M	ID	3/15	Must use
N404	26	Country Code Description: Code identifying the country	M	ID	2/3	Must use
		Country Code				Country
		CA				Canada
		CN				China
		DE				Germany
		GR				Greece
		HK				Hong Kong
		JP				Japan
		MX				Mexico
		PH				Philippines
		PR				Puerto Rico
		US				United States

Segment: **S1** Stop-off Name
Position: 370
Loop: S1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To identify a stop-off party
Syntax Notes: 1 If either S103 or S104 is present, then the other is required.
Semantic Notes: 1 S105 will contain the railroad initial responsible for this stop.
Comments:

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
S101	165	Stop Sequence Number Identifying number for the specific stop and the sequence in which the stop is to be performed	M	N0	1/3	Used
S102	459	Name (30 Character Format) Free-form organization name or official title as it should appear for mailing address	M	AN	2/30	Used
S103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	1/2	Used
S104	67	Identification Code Code identifying a party or other code	C	AN	2/80	Used
S105	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	ID	2/4	Used
S106	190	Accomplish Code Code indicating the status of a specified stop <u>Code NAME</u> A Accomplished	M	ID	1/1	Used

Segment: **S9 Stop-off Station**
Position: 390
Loop: S1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify location details for a stop-off
Syntax Notes: 1 If either S907 or S908 is present, then the other is required.
Semantic Notes:
Comments: 1 S901 contains the same number used on a corresponding S1 Segment.

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
S901	165	Stop Sequence Number Identifying number for the specific stop and the sequence in which the stop is to be performed	M	N0	1/3	Used
S902	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	Used
S903	19	City Name Free-form text for city name	M	AN	2/30	Used
S904	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M	ID	2/2	Used
S905	26	Country Code Code identifying the country	O	ID	2/3	Used
S906	163	Stop Reason Code Code specifying the reason for the stop <u>Code NAME</u> CL Complete CN Consolidate CU Complete Unload HT Heat the Shipment PL Part Load PU Part Unload TL Transload WL Weigh Loaded	M	ID	2/2	Used
S907	309	Location Qualifier Code identifying type of location Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	1/2	Not used
S908	310	Location Identifier Code which identifies a specific location	C	AN	1/30	Not used

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</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
R201	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	M	ID	2/4	Used
R202	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement <u>Code</u> <u>NAME</u> R Origin Carrier, Rule 11 Shipment D DELY (Delivery Switch Carrier)	M	ID	1/2	Used
R203	19	Refer to 0401010 Data Element Dictionary for acceptable code values. City Name Free-form text for city name	O	AN	2/30	Used
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	Used
R205	177	Intermodal Service Code Code identifying the Intermodal Service Plan	O	ID	1/2	Used
R206	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment Refer to 0401010 Data Element Dictionary for acceptable code values.	O	ID	1/2	Used
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)	C	ID	2/4	Not used
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	Not used
R213	742	Route Description Point to point routing description	O	AN	1/35	Not used

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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LX01	554	Assigned Number Description: Number assigned for differentiation within a transaction set	M	N0	1/6	Must use

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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L501	213	Lading Line Item Number Sequential line number for a lading item	O	N0	1/3	Must use
L502	79	Lading Description Description of an item as required for rating and billing purposes	O	AN	1/50	Must use
L503	22	Commodity Code Code describing a commodity or group of commodities	C	AN	1/30	Used
L504	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code <u>Code NAME</u> T Standard Transportation Commodity Code (STCC)	C	ID	1/1	Used

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L001	213	Lading Line Item Number Sequential line number for a lading item	O	N0	1/3	Used
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	C	R	1/11	Used
L003	221	Billed/Rated-as Qualifier Code identifying the type of quantity or value on which the rate or item pricing is based Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	2/2	Used
L004	81	Weight Numeric value of weight	C	R	1/10	Used
L005	187	Weight Qualifier Code defining the type of weight Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	1/2	Used
L006	183	Volume Value of volumetric measure	C	R	1/8	Used
L007	184	Volume Unit Qualifier Code identifying the volume unit Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	1/1	Used
L008	80	Lading Quantity Number of units (pieces) of the lading commodity	M	N0	1/7	Used
L009	211	Packaging Form Code Code for packaging form of the lading quantity Refer to 0401010 Data Element Dictionary for acceptable code values.	M	ID	3/3	Used
L010	458	Dunnage Description Material used to protect lading	O	AN	2/25	Used
L011	188	Weight Unit Code Code specifying the weight unit <u>Code NAME</u> L Pounds	O	ID	ID 1/1	Used

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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L101	213	Lading Line Item Number Sequential line number for a lading item	O	N0	1/3	Used
L102	60	Freight Rate Rate that applies to the specific commodity	C	R	1/9	Used
L103	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	2/2	Used
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 * Required when sending accessorial charges for a line item.	C	N2	1/12	Used
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	C	N2	1/9	Used
L106	117	Prepaid Amount Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified	C	N2	1/9	Used
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 Refer to 0401010 Data Element Dictionary for acceptable code values.	O	AN	3/9	Used
L108	150	Special Charge or Allowance Code Code identifying type of special charge or allowance * Required when sending accessorial charges for a line item. Refer to 0401010 Data Element Dictionary for acceptable code values.	O	ID	3/3	Used
L109	121	Rate Class Code Code identifying specifically designated class of goods; Note: For international air shipments, see IATA Resolution 600k Refer to 0401010 Data Element Dictionary for acceptable code values.	O	ID	1/3	Used
L110	39	Entitlement Code Code identifying entitlement party Refer to 0401010 Data Element Dictionary for acceptable code values.	O	ID	1/1	Used
L111	16	Charge Method of Payment Code defining method of payment	O	ID	1/1	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Refer to 0401010 Data Element Dictionary for acceptable code values.				
L112	276	Special Charge Description Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150	O	AN	2/25	Used
L113	257	Tariff Application Code Code indicating to which traffic a tariff applies	O	ID	1/1	Used
L114	74	Declared Value Refer to 0401010 Data Element Dictionary for acceptable code values. Monetary assigned value expressed in the standard monetary denomination for the currency specified	C	N2	2/12	Used
L115	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	2/2	Used

Segment: **PI Price Authority Identification**

Position: 480

Loop: L0 Mandatory

Level:

Usage: Optional

Max Use: 30

Purpose: To communicate basis of pricing, such as contract number, quote number, or tariff number

Syntax Notes: 1 If PI14 is present, then PI12 is required.

2 If PI15 is present, then PI13 is required.

Semantic Notes: 1 PI07 is the price authority suffix for the contract.

2 PI08 is the price authority item number.

3 PI09 is the price authority supplement.

4 PI10 is the price authority section number.

5 PI11 is the price authority suffix for tariff.

6 PI12 is the effective date.

7 PI13 is the expiration date.

Comments:

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PI01	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 0401010 Data Element Dictionary for acceptable code values.	M	ID	2/3	Used
PI02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Used
PI03	436	Primary Publication Authority Code Code indicating type of external reference <u>Code NAME</u> TP Tariff Publication	O	ID	2/2	Used
PI04	930	Regulatory Agency Code Code relating to the regulatory agency governing the price reference	O	ID	3/5	Used
PI05	168	Tariff Agency Code Code defining the tariff bureau or tariff publishing agent that governs the rates applied to this shipment	O	ID	1/4	Used
PI06	965	Issuing Carrier Identifier Identification assigned by issuing carrier	O	AN	1/10	Used
PI08	169	Tariff Item Number Number assigned in the tariff to specific rate or group of rates that applies to one or more items in the shipment	O	AN	1/16	Used

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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L301	81	Weight Numeric value of weight	C	R	1/10	Used
L302	187	Weight Qualifier Code defining the type of weight <u>Code</u> <u>NAME</u> N Actual Net Weight	C	ID	1/2	Used
L303	60	Freight Rate Rate that applies to the specific commodity	C	R	1/9	Used
L304	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 0401010 Data Element Dictionary for acceptable code values.	C	ID	2/2	Used
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	O	N2	1/12	Used
L306	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	O	N2	1/9	Used
L307	117	Prepaid Amount Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified	O	N2	1/9	Used
L311	80	Lading Quantity Number of units (pieces) of the lading commodity	O	N0	1/7	Used

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</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number Description: 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	Must use

GE Functional Group Trailer

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 2

To indicate the end of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 2

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use