210 Motor Carrier Freight Details and Invoice

X12/V4010/210: 210 Motor Carrier Freight Details and Invoice

Version: 2.0 Draft

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Publication:	**2/25/2009**
Trading Partner:	
Notes:	**2/25/09 - Updated to incorporate TL & LTL Invoices**

Table of Contents

210 Motor Carrier Freight Details and Invoice

Functional Group=**IM**

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Motor Carrier Freight Details and Invoice Transaction Set (210) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide detail information for charges for services rendered by a motor carrier. It is used both as a motor carrier invoice to request payment or as details pertaining to motor freight shipment(s) charges.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Used
020	B3	Beginning Segment for Carrier's Invoice	M	1			Used
060	N9	Reference Identification	O	300			Used
070	G62	Date/Time	M	6			Used
LOOP ID - 0100					**1**		
110	N1	Name	M	1			Must use
130	N3	Address Information	M	2			Must use
140	N4	Geographic Location	M	1			Must use
LOOP ID - 0100					**1**		
110	N1	Name	M	1			Must use
130	N3	Address Information	M	2			Must use
140	N4	Geographic Location	M	1			Must use
LOOP ID - 0100					**1**		
110	N1	Name	M	1			Must use
130	N3	Address Information	M	2			Must use
140	N4	Geographic Location	M	1			Must use
LOOP ID - 0100					**1**		
110	N1	Name	M	1			Used
130	N3	Address Information	O	2			Used
140	N4	Geographic Location	M	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - 0400					**9999**		
120	LX	Assigned Number	M	1			Must use
140	L5	Description, Marks and Numbers	M	30			Must use
170	L0	Line Item - Quantity and Weight	O	10			Used

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
180	L1	Rate and Charges	M	10			Must use
200	L7	Tariff Reference	O	10			Dependent

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	L3	Total Weight and Charges	M	1			Used
020	SE	Transaction Set Trailer	M	1			Used

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

User Note 1:

C.H. Robinson will Accept New & Corrected Invoices ONLY.
NoBalance Due invoices.

Sample TL/IMDL-Dray Invoice:

ST*210*8080003
B3**0998574*61766868*PP**20090324*119500**20090323*035*SCAC
N9*PO*884545
G62*86*20090322
N1*SH*INTEPLAST
N3*101 INTERPLAST BLVD
N4*Lolita*TX*77971*US
N1*CN*FOOD LION
N3*2110 EXECUTIVE DR*PO BOX 1330
N4*Salisbury*NC*28145*US
LX*1
L5*1*PLASTICS / FREIGHT CHARGE
L0*1*1191*FR*42321*L***1728*PCS
L1*1*89753*FR*89753
LX*2
L5*2*UNLOADING UNLD
L1*2*9500*FR*9500****UNL****UNLOADING UNLD
LX*3
L5*3*FUEL SURCHARGE FUEL
L1*3*2.02*FR*20247****FUE****FUEL SURCHARGE FUEL
L3*42321*G***119500
SE*22*8080003

****PLEASE NOTE****

1. B3_02 = Carrier Invoice Number
2. B3_03 = C.H. Robinson Load Number
3. Order of N1 Loops: SH before CN
4. Each LX loop is a separate charge.
5. First LX loop MUST always be the freight charge.
6. Total in L3_05 must match total in B3_07

Sample LTL invoice:

ST*210*000969045
B3**1077220016**PP**20090325*41719**20090324*035*SCAC
C2*R*ZZ*PREFERREDSYS
C3*USD*1.000*USD*USD
N9*PO*18542373
G62*86*20090320
N1*SH*MARTEX NUTRITION INC
N3*7230 NW 33RD ST
N4*MIAMI*FL*33122
N1*CN*MARTEX
N3*82 EASTERN STEEL RD
N4*MILFORD*CT*06460
N1*BT*CHRLTL
N3*14800 CHARLSON RD STE 2100
N4*EDEN PRAIRIE*MN*55347
N1*PR*CHRLTL
N3*14800 CHARLSON RD STE 2100
N4*EDEN PRAIRIE*MN*55347*USA
LX*1
L5*1*NUTRITION SUPPLEMENT*07318500*N
L0*1***2990*N***3*SKD**L**108*CTN*W
L1*1*31.89*PH*95351
L7*1******60.0
LX*2
L5*2*PERCENT DISCOUNT
L1*2*59.6*AV*-56829****DSC****DISC
LX*3
L5*3*GENERAL SURCHARGE (FUEL FRT)
L1*3*8.3*AV*3197****ENS****FSC
L3*2990*G***41719******3
SE*31*000969045

****PLEASE NOTE****
1. B3_02 = Carrier Invoice Number
2. Order of N1 Loops: SH, CN, BT, PR (PR is optional)
3. Each LX loop is a separate charge
4. First LX loop MUST always be the freight charge.
5. Freight Class code - L7 segement required with freight charge
6. Total in L3_05 must match total in B3_07

ISA   Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	**Elements: 16**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use

Description: Code to identify the type of information in the Authorization Information
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA02	I02	**Authorization Information**	M	AN	10/10	Must use

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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use

Description: Code to identify the type of information in the Security Information
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA04	I04	**Security Information**	M	AN	10/10	Must use

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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use

Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Must use

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use

Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

Code Name
02   SCAC (Standard Carrier Alpha Code)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Must use

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

User Note 1:

TL & LTL:

Ref	Id	Element Name	Req	Type	Min/Max	Usage

Test ID = RBTWTEST

Production ID = RBTW

Intermodal Dray:

Test ID = RBINTEST

Production ID = RBIN

| ISA09 | I08 | **Interchange Date** | M | DT | 6/6 | Must use |

Description: Date of the interchange

| ISA10 | I09 | **Interchange Time** | M | TM | 4/4 | Must use |

Description: Time of the interchange

| ISA11 | I10 | **Interchange Control Standards Identifier** | M | ID | 1/1 | Must use |

Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer
All valid standard codes are used.

| ISA12 | I11 | **Interchange Control Version Number** | M | ID | 5/5 | Must use |

Description: Code specifying the version number of the interchange control segments

User Note 1:

00401

Code   Name

00401   Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures
Review Board through October 1997

| ISA13 | I12 | **Interchange Control Number** | M | N0 | 9/9 | Must use |

Description: A control number assigned by the interchange sender

| ISA14 | I13 | **Acknowledgment Requested** | M | ID | 1/1 | Must use |

Description: Code sent by the sender to request an interchange acknowledgment (TA1)
All valid standard codes are used.

| ISA15 | I14 | **Usage Indicator** | M | ID | 1/1 | Must use |

Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information
All valid standard codes are used.

| ISA16 | I15 | **Component Element Separator** | M | | 1/1 | Must use |

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

GS　Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use

Description: Code identifying a group of application related transaction sets

Code	Name
IM	Motor Carrier Freight Details and Invoice (210, 980)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use

Description: Code identifying party sending transmission; codes agreed to by trading partners

GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use

Description: Code identifying party receiving transmission; codes agreed to by trading partners

User Note 1:

TL & LTL:

Test ID = RBTWTEST
Production ID = RBTW

Intermodal Dray:

Test ID = RBINTEST
Production ID = RBIN

GS04	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

GS05	337	**Time**	M	TM	4/8	Must use

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)

GS06	28	**Group Control Number**	M	N0	1/9	Must use

Description: Assigned number originated and maintained by the sender

GS07	455	**Responsible Agency Code**	M	ID	1/2	Must use

Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		All valid standard codes are used.				
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use

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); if code in DE455 in GS segment is T, then other formats are allowed

Code	Name
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

1. 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.

ST Transaction Set Header

<table>
<tr><td>Pos: 010</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used

Purpose: To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Used

Description: Code uniquely identifying a Transaction Set

Code	Name
210	Motor Carrier Freight Details and Invoice

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Used

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

B3 Beginning Segment for Carrier's Invoice

Pos: 020	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 14**

User Option (Usage): Used

Purpose: To transmit basic data relating to the carrier's invoice

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B301	147	**Shipment Qualifier**	O	ID	1/1	Used

Description: Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B302	76	**Invoice Number**	M	AN	1/22	Must use

Description: Identifying number assigned by issuer
User Note 1:

LTL - Carriers Pro Number

TL - Invoice Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B303	145	**Shipment Identification Number**	O	AN	1/30	Used

Description: 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)
User Note 1:

C.H. Robinson Load Number

TL - MANDATORY

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B304	146	**Shipment Method of Payment**	M	ID	2/2	Must use

Description: Code identifying payment terms for transportation charges

Code	Name
CC	Collect
PP	Prepaid (by Seller)
TP	Third Party Pay

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B305	188	**Weight Unit Code**	O	ID	1/1	Used

Description: Code specifying the weight unit
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B306	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD
User Note 1: *Invoice Date*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B307	193	**Net Amount Due**	M	N2	1/12	Must use

Description: Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified

User Note 1:

Total Charge - Must match amount in L3_05

| B308 | 202 | **Correction Indicator** | O | ID | 2/2 | Used |

Description: Code used to indicate that the transaction set contains information which corrects previous information
All valid standard codes are used.

| B309 | 32 | **Delivery Date** | M | DT | 8/8 | Must use |

Description: Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD

| B310 | 374 | **Date/Time Qualifier** | M | ID | 3/3 | Must use |

Description: Code specifying type of date or time, or both date and time

Code Name
035   Delivered

| B311 | 140 | **Standard Carrier Alpha Code** | M | ID | 2/4 | Must use |

Description: Standard Carrier Alpha Code

| B312 | 373 | **Date** | O | DT | 8/8 | Used |

Description: Date expressed as CCYYMMDD

| B313 | 375 | **Tariff Service Code** | O | ID | 2/2 | Used |

Description: Code specifying the types of services for rating purposes
All valid standard codes are used.

| B314 | 335 | **Transportation Terms Code** | O | ID | 3/3 | Used |

Description: Code identifying the trade terms which apply to the shipment transportation responsibility
All valid standard codes are used.

Syntax Rules:

1. P0910 - If either B309 or B310 is present, then the other is required.

Semantics:

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.

N9 Reference Identification

Pos: 060   Max: 300
Heading - Optional
Loop: N/A   Elements: 2

User Option (Usage): Used
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	**Reference Identification Qualifier**	M	ID	2/3	Used

Description: Code qualifying the Reference Identification
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N902	127	**Reference Identification**	X	AN	1/30	Used

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

1. C0605 - If N906 is present, then N905 is required.
2. R0203 - At least one of N902 or N903 is required.

Semantics:

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

User Note 1:

Optional. Used for additional reference numbers such as PO, BM, CN, CR etc.

G62 Date/Time

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6201	432	**Date Qualifier**	M	ID	2/2	Must use

Description: Code specifying type of date

Code	Name
86	Actual Pickup Date

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6202	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Syntax Rules:

1. P0102 - If either G6201 or G6202 is present, then the other is required.
2. P0304 - If either G6203 or G6204 is present, then the other is required.
3. R0103 - At least one of G6201 or G6203 is required.

Loop 0100

<table>
<tr><td>Pos: 110</td><td>Repeat: 1</td></tr>
<tr><td colspan="2" align="center">Mandatory</td></tr>
<tr><td colspan="2">Loop: 0100   Elements: N/A</td></tr>
</table>

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
110	N1	Name	M	1		Must use
130	N3	Address Information	M	2		Must use
140	N4	Geographic Location	M	1		Must use

User Note 1:

'SH' (Shipper) N1 Loop is MANDATORY on all invoices

N1 Name

<div style="border:1px solid">
Pos: 110   Max: 1

Heading - Mandatory

Loop: 0100   Elements: 4
</div>

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code Name

SH   Shipper

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	M	AN	1/60	Must use

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code Name

92   Assigned by Buyer or Buyer's Agent

93   Code assigned by the organization originating the transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

Syntax Rules:

1. P0304 - If either N103 or N104 is present, then the other is required.
2. R0203 - At least one of N102 or N103 is required.

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.

N3 Address Information

		Pos: 130	Max: 2
		Heading - Mandatory	
		Loop: 0100	**Elements: 2**

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information**	M	AN	1/55	Must use
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

<div>
Pos: 140   Max: 1

Heading - Mandatory

Loop: 0100   Elements: 4
</div>

User Option (Usage): Must use

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	M	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	**State or Province Code**	M	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	**Postal Code**	M	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	**Country Code**	O	ID	2/3	Used
		Description: Code identifying the country				

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

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.

Loop 0100

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
110	N1	Name	M	1		Must use
130	N3	Address Information	M	2		Must use
140	N4	Geographic Location	M	1		Must use

User Note 1:

'CN' (Consignee) N1 Loop is MANDATORY on all invoices

N1 Name

Pos: 110   Max: 1
Heading - Mandatory
Loop: 0100   Elements: 4

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

> **Description:** Code identifying an organizational entity, a physical location, property or an individual

> **Code** **Name**
> CN   Consignee

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	M	AN	1/60	Must use

> **Description:** Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	1/2	Used

> **Description:** Code designating the system/method of code structure used for Identification Code (67)

> **Code** **Name**
> 92   Assigned by Buyer or Buyer's Agent
> 93   Code assigned by the organization originating the transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	Used

> **Description:** Code identifying a party or other code

Syntax Rules:

1. P0304 - If either N103 or N104 is present, then the other is required.
2. R0203 - At least one of N102 or N103 is required.

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.

N3 Address Information

Pos: 130   Max: 2
Heading - Mandatory
Loop: 0100   Elements: 2

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information**	M	AN	1/55	Must use
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

<table>
<tr><td>Pos: 140</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: 0100</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Must use
Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	M	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	**State or Province Code**	M	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	**Postal Code**	M	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	**Country Code**	O	ID	2/3	Used
		Description: Code identifying the country				

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

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.

Loop 0100

<table>
<tr><td>Pos: 110</td><td>Repeat: 1</td></tr>
<tr><td colspan="2">Optional</td></tr>
<tr><td colspan="2">Loop: 0100　Elements: N/A</td></tr>
</table>

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
110	N1	Name	M	1		Must use
130	N3	Address Information	M	2		Must use
140	N4	Geographic Location	M	1		Must use

User Note 1:

LTL - 'BT' (Bill To) N1 Loop is MANDATORY

TL & IMDL Dray - 'BT' (Bill To) N1 Loop is OPTIONAL

N1 Name

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
BT	Bill-to-Party

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	M	AN	1/60	Must use

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
92	Assigned by Buyer or Buyer's Agent
93	Code assigned by the organization originating the transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

Syntax Rules:

1. P0304 - If either N103 or N104 is present, then the other is required.
2. R0203 - At least one of N102 or N103 is required.

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.

N3 Address Information

<div style="border:1px solid black">

Pos: 130   **Max: 2**

Heading - Mandatory

Loop: 0100   **Elements: 2**

</div>

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information**	M	AN	1/55	Must use
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

User Option (Usage): Must use

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	M	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	**State or Province Code**	M	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	**Postal Code**	M	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	**Country Code**	O	ID	2/3	Used
		Description: Code identifying the country				

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

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.

Loop 0100

Pos: 110   **Repeat: 1**
Optional
Loop: 0100   Elements: N/A

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
110	N1	Name	M	1		Used
130	N3	Address Information	O	2		Used
140	N4	Geographic Location	M	1		Used

User Note 1:

'PR' (Payer) N1 Loop is Optional

N1 **Name**

<div style="border:1px solid black">

Pos: 110   **Max: 1**

Heading - Mandatory

Loop: 0100   Elements: 4

</div>

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Used

Description: Code identifying an organizational entity, a physical location, property or an individual

Code Name

PR   Payer

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	M	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code Name

92   Assigned by Buyer or Buyer's Agent

93   Code assigned by the organization originating the transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	Used

Description: Code identifying a party or other code

Syntax Rules:

1. P0304 - If either N103 or N104 is present, then the other is required.
2. R0203 - At least one of N102 or N103 is required.

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.

N3 Address Information

Pos: 130	Max: 2
Heading - Optional	
Loop: 0100	**Elements: 2**

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information**	M	AN	1/55	Used
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

<table>
<tr><td>Pos: 140</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: 0100</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	M	AN	2/30	Used

Description: Free-form text for city name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N402	156	**State or Province Code**	M	ID	2/2	Used

Description: Code (Standard State/Province) as defined by appropriate government agency

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N403	116	**Postal Code**	M	ID	3/15	Used

Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N404	26	**Country Code**	O	ID	2/3	Used

Description: Code identifying the country

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

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.

Loop 0400

<div style="border: 1px solid black;">

Pos: 120   Repeat: 9999
Mandatory
Loop: 0400   Elements: N/A

</div>

User Option (Usage): Must use
Purpose: To reference a line number in a transaction set

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
120	LX	Assigned Number	M	1		Must use
140	L5	Description, Marks and Numbers	M	30		Must use
170	L0	Line Item - Quantity and Weight	O	10		Used
180	L1	Rate and Charges	M	10		Must use
200	L7	Tariff Reference	O	10		Dependent

LX Assigned Number

Pos: 120	**Max: 1**
Detail - Mandatory	
Loop: 0400	**Elements: 1**

User Option (Usage): Must use

Purpose: To reference a line number in a transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LX01	554	**Assigned Number**	M	N0	1/6	Must use

> **Description:** Number assigned for differentiation within a transaction set

User Note 1:

***** Important Note ****

First LX Loop is for the Freight Charge.

Remaining LX Loops are for Accessorial Charges.

L5 Description, Marks and Numbers

Pos: 140   Max: 30
Detail - Mandatory
Loop: 0400   Elements: 4

User Option (Usage): Must use

Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L501	213	**Lading Line Item Number**	M	N0	1/3	Used

Description: Sequential line number for a lading item

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L502	79	**Lading Description**	M	AN	1/50	Used

Description: Description of an item as required for rating and billing purposes

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L503	22	**Commodity Code**	X	AN	1/30	Used

Description: Code describing a commodity or group of commodities

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L504	23	**Commodity Code Qualifier**	X	ID	1/1	Used

Description: Code identifying the commodity coding system used for Commodity Code
All valid standard codes are used.

Syntax Rules:

1. C0706 - If L507 is present, then L506 is required.
2. P0304 - If either L503 or L504 is present, then the other is required.
3. P0809 - If either L508 or L509 is present, then the other is required.

Comments:

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

L0 Line Item - Quantity and Weight

Pos: 170   Max: 10
Detail - Optional
Loop: 0400   Elements: 7

User Option (Usage): Used

Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L001	213	**Lading Line Item Number**	M	N0	1/3	Used

Description: Sequential line number for a lading item

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L002	220	**Billed/Rated-as Quantity**	M	R	1/11	Must use

Description: Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81

User Note 1:

If L0_03 Qualifier is 'FR' (Flat Rate) then quantity in L0_02 = 1

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L003	221	**Billed/Rated-as Qualifier**	M	ID	2/2	Must use

Description: Code identifying the type of quantity or value on which the rate or item pricing is based

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L004	81	**Weight**	M	R	1/10	Must use

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L005	187	**Weight Qualifier**	M	ID	1/2	Must use

Description: Code defining the type of weight

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L008	80	**Lading Quantity**	X	N0	1/7	Used

Description: Number of units (pieces) of the lading commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L009	211	**Packaging Form Code**	X	ID	3/3	Used

Description: Code for packaging form of the lading quantity
All valid standard codes are used.

Syntax Rules:

1. C1104 - If L011 is present, then L004 is required.
2. P0203 - If either L002 or L003 is present, then the other is required.
3. P0405 - If either L004 or L005 is present, then the other is required.
4. P0607 - If either L006 or L007 is present, then the other is required.
5. P0809 - If either L008 or L009 is present, then the other is required.
6. P1315 - If either L013 or L015 is present, then the other is required.

Semantics:

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.

User Note 1:

L0 segment REQUIRED in freight charge LX loop (FIRST LX LOOP).

L0 segment can be omitted from Accessorial Charge LX Loops.

L1   Rate and Charges

Pos: 180	Max: 10
Detail - Mandatory	
Loop: 0400	Elements: 6

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L101	213	**Lading Line Item Number**	M	N0	1/3	Must use

Description: Sequential line number for a lading item

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L102	60	**Freight Rate**	M	R	1/9	Must use

Description: Rate that applies to the specific commodity

User Note 1:

If L1_03 Qualifier is 'FR" (Flat Rate) then Freight Rate in L1_02 = 1

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L103	122	**Rate/Value Qualifier**	M	ID	2/2	Must use

Description: Code qualifying how to extend charges or interpret value

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L104	58	**Charge**	M	N2	1/12	Must use

Description: 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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L108	150	**Special Charge or Allowance Code**	O	ID	3/3	Used

Description: Code identifying type of special charge or allowance

User Note 1:

L1_08 REQUIRED for Accessorial Charges

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L112	276	**Special Charge Description**	O	AN	2/25	Used

Description: Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150

User Note 1:

L1_12 REQUIRED for Accessorial Charges

Syntax Rules:

1. P0203 - If either L102 or L103 is present, then the other is required.
2. P1415 - If either L114 or L115 is present, then the other is required.
3. P1718 - If either L117 or L118 is present, then the other is required.
4. R040506 - At least one of L104, L105 or L106 is required.

Semantics:

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.

User Note 1:

L1 Segment REQUIRED on ALL LX Loops

L1_08 REQUIRED for Accessorial Charges
L1_12 REQUIRED for Accessorial Charges

L7 Tariff Reference

<table>
<tr><td>Pos: 200</td><td>Max: 10</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: 0400</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Dependent

Purpose: To reference details of the tariff used to arrive at applicable rates or charge

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L701	213	**Lading Line Item Number**	M	N0	1/3	Used

   Description: Sequential line number for a lading item

| L707 | 59 | **Freight Class Code** | M | AN | 2/5 | Used |

   Description: Code indicating generalized classification that applies to one or more items in the shipment, i.e., class 70, 77.5, etc.

Semantics:

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

User Note 1:

TL - L7 Loop can be omitted

LTL:

- L7 segment REQUIRED with freight charge LX Loop. (First LX Loop)

- L7 segement can be omitted for Accessorial Charge LX Loops

L3 Total Weight and Charges

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 3

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L301	81	**Weight**	O	R	1/10	Used

Description: Numeric value of weight

User Note 1:

Total Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L302	187	**Weight Qualifier**	O	ID	1/2	Used

Description: Code defining the type of weight

Code Name

G   Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L305	58	**Charge**	M	N2	1/12	Must use

Description: 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

User Note 1:

Total Charge - Must match amount in B3_07

Syntax Rules:

1. C1201 - If L312 is present, then L301 is required.
2. P0102 - If either L301 or L302 is present, then the other is required.
3. P0304 - If either L303 or L304 is present, then the other is required.
4. P0910 - If either L309 or L310 is present, then the other is required.
5. P1415 - If either L314 or L315 is present, then the other is required.

Semantics:

1. L305 is the total charges.

SE Transaction Set Trailer

Pos: 020   Max: 1
Summary - Mandatory
Loop: N/A   Elements: 2

User Option (Usage): Used

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)

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**	M	N0	1/10	Used

Description: Total number of segments included in a transaction set including ST and SE segments

| SE02 | 329 | **Transaction Set Control Number** | M | AN | 4/9 | Used |

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Comments:

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

GE   Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Must use

Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE02	28	**Group Control Number**	M	N0	1/9	Must use

Description: Assigned number originated and maintained by the sender

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
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Must use

Description: A count of the number of functional groups included in an interchange

IEA02	I12	**Interchange Control Number**	M	N0	9/9	Must use

Description: A control number assigned by the interchange sender