

R+L Carriers EDI File Format

211 Bill Of Lading

Document Version: 1.0
X12 Version: 4010
Functional Group: BL

The purpose of this document is to present and explain the application of the ASC X12 4010 standards as they pertain to the motor carrier industry implementation of the Transaction Set 211, Motor Carrier Bill of Lading.

What is a Transaction Set 211?

Transaction Set 211 is a standardized format used for electronically transmitting a Motor Carrier Bill of Lading.

It is used as a supplement to, a paper bill of lading. It is sent from the company that controls the freight to the motor carrier. It is considered an exact representation of the shipment. It does not negate the need for a paper BOL accompanying the freight shipment.

It is not to be used to provide a motor carrier with data related to a load tender, pick up manifest, or appointment scheduling.

The transaction set is used to convey bill of lading information for a single shipment having only one origin and one destination.

What information goes into a Transaction Set 211?

The Transaction Set 211 is divided into two sections: a Transaction Header and Transaction Details. The Transaction Header contains equipment details and handling requirements. The Ship From, Ship To, and Bill To address information, and applicable reference numbers are conveyed in the Details 0100 loop. The 0200 loop section contains line item details used for rating and pricing. Hazardous commodity information is also transmitted in the Transaction Details section.

The technical format for Transaction Set 211 is included with this document.

When does the Transaction Set 211 get transmitted?

The bill of lading transaction should be transmitted to the carrier immediately after the shipment has been loaded. This will allow for any final changes to be included in the original transmission.

Trading partners will need to agree on the timeliness of the transmission. Carriers need the electronic information to move the shipment.

EDI 211 Requirements and Information

- Please place the following information in these elements:
 - Your Bill of Lading Number in L1101 where L1102 = 'BM'.
 - Shipper's Shipment ID in BOL03.
 - R+L Pro Number (if known) in BOL06

It is a requirement to have one of the these three. We need this information to insure timely and accurate processing of your EDI transaction. Transactions without these items in the correct location will be rejected and a corrected EDI 211 will need to be transmitted.

Note: If the Bill of Lading and Shipment ID are the same, only one needs to be sent.

- Ship-from, Ship-to, and Bill-to addresses must be provided in 0100 loops.
- Purpose Codes (B2A01) that we recognize:
 - 00 (Original)
 - 01 (Cancel)
 - 04 (Change)
 - 05 (Replace)
 - 17 (Cancel, to be reissued)
 - 20 (Final)
- Only the first 'Original' transaction will be accepted. Subsequent 'Change' transactions will be overlaid on the previous 'New' or 'Change' record received. Any 'Change' received before a 'Original' will be recorded as a 'Original'.
- If the shipment is COD, provide the following information:
 - COD Amount in AT301
 - The text "COD" in AT306
- If any of the following information changes after an 'Original' is transmitted, please provide a 'Cancel' 211 with the original data, then send an 'Original' containing the new information. Do not send a 'Change' or 'Replace' type if any of these data points are changed:
 - Your Bill of Lading Number (L1101)
 - Shipper's Shipment Identifier Number (BOL03)
 - Shipper Name (N102)
 - Shipper Address Line 1 (N301)
 - Shipper Zip Code (N403)
- Once R+L Carriers has billed your freight, no further 211 transmissions will be acknowledged.
- The 211 can be transmitted prior to the freight getting picked up if the shipment information is accurate.

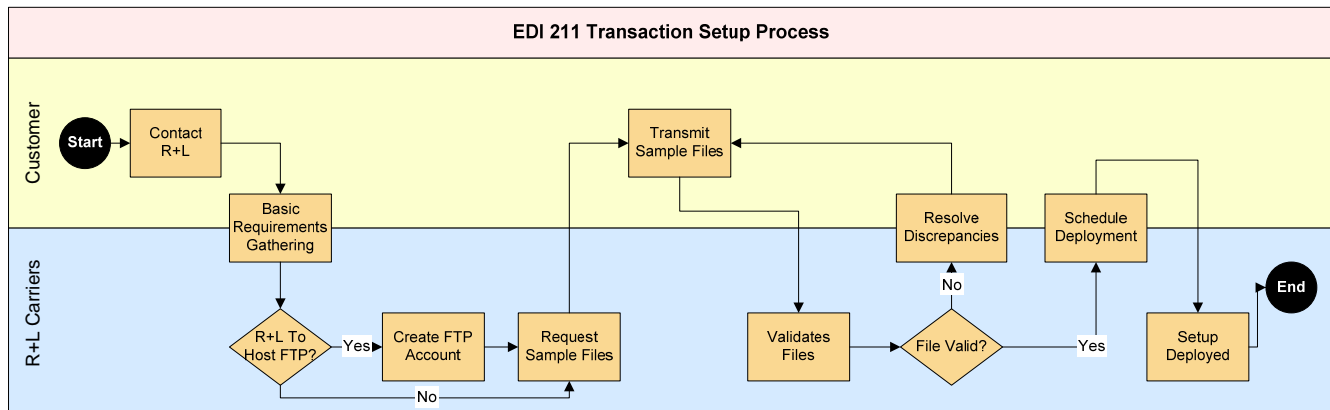
Setting up EDI Transaction Set 211

1. Contact R+L Carrier’s EDI Manager or your R+L Sales Representative to begin the process of setting up 211 transmissions. A questionnaire will be provided that asks for basic file and transmission information that should be filled out as much as possible and returned.

The EDI Manager will need to know of any variations used on the Standard 211 format and any special requirements for EDI transmission. Deviations from the standard will need to be resolved and brought into compliance.

2. If required, R+L will setup an FTP mailbox for you to put and get files.
3. An R+L Carriers EDI developer will contact you to begin testing.
4. Transmit to R+L sample EDI 211 transactions.
5. R+L will check the 211’s for completeness and accuracy. If there is a problem, R+L will work with your EDI contact to resolve the issues.
6. If requested, sample 997 acknowledgments will be provided to you.
7. Following successful tests, your account will be scheduled for deployment to the production environment.

R+L Carriers EDI Manager	Judy Fizer	800.543.5589 x1365	jfizer@rlcarriers.com
R+L Carriers EDI Technical Coordinator	Joe Tipton	800.543.5589 x1497	jtipton@rlcarriers.com



211

Motor Carrier Bill of Lading

Functional Group=BL

This Draft Standard for Trial Use contains the format and establishes the data contents of the Motor Carrier Bill of Lading Transaction Set (211) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to allow shippers or other parties, responsible for contracting with a motor carrier, to provide a legal bill of lading for a shipment. It is not to be used to provide a motor carrier with data relative to a load tender, pick-up manifest, or appointment scheduling.

Not Defined:

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

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BOL	Beginning Segment for the Motor Carrier Bill of Lading	M	1			Must use
030	B2A	Set Purpose	M	1			Must use
040	MS3	Interline Information	O	12			Used
050	MS2	Equipment or Container Owner and Type	O	1		N1/050	Used
060	L11	Business Instructions and Reference Number	O	100			Used
070	G62	Date/Time	O	6			Used
080	AT5	Bill of Lading Handling Requirements	O	50			Used
090	K1	Remarks	O	10			Used
LOOP ID - 0100					10	N1/100L	
100	N1	Name	O	1		N1/100	Used
110	N2	Additional Name Information	O	1			Used
120	N3	Address Information	O	2			Used
130	N4	Geographic Location	O	1			Used
140	G61	Contact	O	3			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - 0200					9999	N2/010L	
010	AT1	Bill of Lading Line Item Number	M	1		N2/010	Must use
020	L11	Business Instructions and Reference Number	O	100			Used
030	AT3	Bill of Lading Rates and Charges	O	1		N2/030	Used
040	AT4	Bill of Lading Description	O	99		N2/040	Used
LOOP ID - 0210					1	N2/050L	
050	AT2	Bill of Lading Line Item Detail	O	1		N2/050	Used
060	MAN	Marks and Numbers	O	999999		N2/060	Used
070	SPO	Shipment Purchase Order Detail	O	999999		N2/070	Used

LOOP ID - 0220				999999	N2/080L	
080	LX	Assigned Number	O	1	N2/080	Used
090	MAN	Marks and Numbers	O	999999		Used
100	SPO	Shipment Purchase Order Detail	O	999999		Used
LOOP ID - 0230				2	N2/110L	
110	G61	Contact	O	1	N2/110	Used
120	L11	Business Instructions and Reference Number	O	5		Used
130	LH6	Hazardous Certification	O	6		Used
LOOP ID - 0231				25		
140	LH1	Hazardous Identification Information	M	1		Must use
150	LH2	Hazardous Classification Information	O	4		Used
160	LH3	Hazardous Material Shipping Name	O	10		Used
170	LFH	Freeform Hazardous Material Information	O	20		Used
180	LEP	EPA Required Data	O	3		Used
190	LH4	Canadian Dangerous Requirements	O	1		Used
200	LHT	Transborder Hazardous Requirements	O	3		Used
210	L11	Business Instructions and Reference Number	O	5		Used
220	SE	Transaction Set Trailer	M	1		Must use

Not Defined:

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

Notes:

- 1/050 The MS2 segment is used to provide the carrier with the trailer number of the trailer that has the shipment on it.
- 1/100L Loop 0100 is used to specify the parties to the Bill of Lading, including but not limited to, the ship-from, ship-to, or bill-to parties.
- 1/100 Loop 0100 is used to specify the parties to the Bill of Lading, including but not limited to, the ship-from, ship-to, or bill-to parties.
- 2/010L The AT1 segment provides the line number for all of the related items included. It may include reference numbers, rates and charges, descriptions, and or line item details. Any data included within a single loop is related to the other data included in that loop. Any reference numbers included in a loop with line item details are related to that line item only. Any reference numbers included in its own line item are related to the entire shipment and can not be broken out by line item detail.
- 2/010 The AT1 segment provides the line number for all of the related items included. It may include reference numbers, rates and charges, descriptions, and or line item details. Any data included within a single loop is related to the other data included in that loop. Any reference numbers included in a loop with line item details are related to that line item only. Any reference numbers included in its own line item are related to the entire shipment and can not be broken out by line item detail.
- 2/030 Care should be taken when using the AT3 segment to provide the carrier with a pre-rated Bill of Lading. Rates and charges included on the Bill of Lading are subject to audit. Accessorial charges usually can not be determined before the shipment has been delivered, therefore use of this segment may not negate the requirement for transaction set 210, Freight Invoice and Details.
The AT3 segment provides a means of transmitting freight charges and the basis for those charges. The amount of the charge appears in AT301. If the charge is based on a percent discount, the percent discount is transmitted in AT307 with the charge, after the discount has been applied, in AT301. If the charge is not

based on a rating structure (per mile, per hundred weight, as weight etc.) the type of charge is identified in AT306. If the charge is based on a rate, the rate is transmitted in AT303 with the qualifier (per mile, per hundred weight) codified in AT302. If the quantity of the unit being rated is required AT305 is used in conjunction with AT304. For example, for a charge of \$20.00 that is based on a rate of \$1.00 per mile the segment would be as follows: AT3*2000*PM*1*MI*20 N/L.

- 2/040 Segment AT4 provides a means for the shipper to provide a text description of the line item. The National Motor Freight Classification and the freight class shall be included in the AT2 segment if applicable.
- 2/050L The AT2 segment is used to provide the carrier with the appropriate data to rate the shipment. It is included per line item when the line item includes an item of freight.
- 2/050 The AT2 segment is used to provide the carrier with the appropriate data to rate the shipment. It is included per line item when the line item includes an item of freight.
- 2/060 The MAN segment provides the marks and numbers associated with the line item identified in the AT2 segment.
- 2/070 The SPO segment provides the purchase order numbers and details associated with the line item details included in the AT2 segment.
- 2/080L Loop 0220 shall only be used when the marks and numbers or the purchase order detail can not be associated with the specific Bill of Lading line item details included in the AT2 segments transmitted with this Bill of Lading.
- 2/080 Loop 0220 shall only be used when the marks and numbers or the purchase order detail can not be associated with the specific Bill of Lading line item details included in the AT2 segments transmitted with this Bill of Lading.
- 2/110L The G61 segment shall only be used to provide the name and phone number of the contact for any hazardous materials included on this Bill of Lading.
- 2/110 The G61 segment shall only be used to provide the name and phone number of the contact for any hazardous materials included on this Bill of Lading.

ISA

Interchange Control Header

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

User Option (Usage): Must use

To start and identify 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>
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information All valid standard codes are used.	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 All valid standard codes are used.	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 All valid standard codes are used.	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 All valid standard codes are used.	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

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 All valid standard codes are used.	M	ID	1/1	Must use
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments All valid standard codes are used.	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) All valid standard codes are used.	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 All valid standard codes are used.	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
Not Defined - Mandatory
Loop: N/A Elements: 8

User Option (Usage): Must use

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 All valid standard codes are used.	M	ID	2/2	Must use
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	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 identifying the issuer of the standard; this code is used in conjunction with Data Element 480 All valid standard codes are used.	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); if code in DE455 in GS segment is T, then other formats are allowed All valid standard codes are used.	M	AN	1/12	Must use

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**

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

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 All valid standard codes are used.	M	ID	3/3	Must use
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

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).

BOL Beginning Segment for the Motor Carrier Bill of Lading

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 11

User Option (Usage): Must use

To transmit identifying numbers, dates, and other basic data related to the transaction set

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>
BOL01	140	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code	M	ID	2/4	Must use
BOL02	146	Shipment Method of Payment Description: Code identifying payment terms for transportation charges All valid standard codes are used.	M	ID	2/2	Must use
BOL03	145	Shipment Identification Number 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)	M	AN	1/30	Must use
BOL04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
BOL05	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)	O	TM	4/8	Used
BOL06	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used
BOL07	160	Status Report Request Code Description: Code used by the shipper to specify that an automatic status report is requested when the shipment is delivered All valid standard codes are used.	O	ID	1/1	Used
BOL08	226	Section Seven Code Description: Code indicating applicability of section seven option (if not transmitted assume not in effect) All valid standard codes are used.	O	ID	1/1	Used
BOL09	501	Customs Documentation Handling Code Description: Code defining method of handling for documentation All valid standard codes are used.	O	ID	2/2	Used
BOL10	146	Shipment Method of Payment Description: Code identifying payment terms	O	ID	2/2	Used

for transportation charges
All valid standard codes are used.

BOL11	100	Currency Code	O	ID	3/3	Used
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Description: Code (Standard ISO) for country in whose currency the charges are specified

Semantics:

1. BOL01 is the Standard Carrier Alpha Code (SCAC) of the carrier that is to provide transportation services.
2. BOL02 is the method of payment for the freight charges.
3. BOL03 is the identification number assigned by the shipper, usually the Bill of Lading number.
4. BOL04 is the date the carrier picked up the freight.
5. BOL05 is the actual time the carrier picked up the freight.
6. BOL06 is the number assigned by the carrier to the shipment, usually the PRO number.
7. BOL10 is the method of payment for the COD fee.
8. BOL11 is the currency that all monetary units are specified in for this transaction set.

B2A Set Purpose

Pos: 030	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

To allow for positive identification of transaction set purpose

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>
B2A01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set All valid standard codes are used.	M	ID	2/2	Must use
B2A02	346	Application Type Description: Code identifying an application All valid standard codes are used.	O	ID	2/2	Used

MS3 Interline Information

Pos: 040	Max: 12
Heading - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Used

To identify the interline carrier and relevant 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>
MS301	140	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code	M	ID	2/4	Must use
MS302	133	Routing Sequence Code Description: Code describing the relationship of a carrier to a specific shipment movement All valid standard codes are used.	M	ID	1/2	Must use
MS303	19	City Name Description: Free-form text for city name	X	AN	2/30	Used
MS304	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment All valid standard codes are used.	O	ID	1/2	Used
MS305	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used

Syntax:

1. C0503 - If MS305 is present, then all of MS303 are required

Semantics:

1. MS301 is the Standard Carrier Alpha Code (SCAC) of the interline carrier.
2. MS303 is the city where the interline was performed.

MS2

Equipment or Container Owner and Type

Pos: 050	Max: 1
Heading - Optional	
Loop: N/A	Elements: 4

User Option (Usage): Used

To specify the owner, the identification number assigned by that owner, and the type of equipment

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>
MS201	140	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code	X	ID	2/4	Used
MS202	207	Equipment Number Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X	AN	1/10	Used
MS203	40	Equipment Description Code Description: Code identifying type of equipment used for shipment All valid standard codes are used.	O	ID	2/2	Used
MS204	761	Equipment Number Check Digit Description: Number which designates the check digit applied to a piece of equipment	O	N0	1/1	Used

Syntax:

1. P0102 - If either MS201,MS202 is present, then all are required
2. C0402 - If MS204 is present, then all of MS202 are required

Comments:

1. MS203 identifies the type for the equipment specified in MS202.

L11

Business Instructions and Reference Number

Pos: 060	Max: 100
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify instructions in this business relationship or a reference number

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>
L1101	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
L1102	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used.	X	ID	2/3	Used
L1103	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

Syntax:

1. R0103 - At least one of L1101,L1103 is required
2. P0102 - If either L1101,L1102 is present, then all are required

G62

Date/Time

Pos: 070	Max: 6
Heading - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Used

To specify pertinent dates and times

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>
G6201	432	Date Qualifier Description: Code specifying type of date All valid standard codes are used.	X	ID	2/2	Used
G6202	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Used
G6203	176	Time Qualifier Description: Code specifying the reported time All valid standard codes are used.	X	ID	1/2	Used
G6204	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)	X	TM	4/8	Used
G6205	623	Time Code Description: 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 All valid standard codes are used.	O	ID	2/2	Used

Syntax:

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

AT5**Bill of Lading Handling Requirements**

Pos: 080	Max: 50
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To identify Bill of Lading handling and service requirements

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>
AT501	152	Special Handling Code Description: Code specifying special transportation handling instructions All valid standard codes are used.	X	ID	2/3	Used
AT502	560	Special Services Code Description: Code identifying the special service All valid standard codes are used.	X	ID	2/10	Used
AT503	153	Special Handling Description Description: Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate	X	AN	2/30	Used

Syntax:

1. E0103 - Only one of AT501,AT503 may be presented
2. E0203 - Only one of AT502,AT503 may be presented

K1

Remarks

Pos: 090	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To transmit information in a free-form format for comment or special instruction

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>
K101	61	Free-Form Message Description: Free-form information	M	AN	1/30	Must use
K102	61	Free-Form Message Description: Free-form information	O	AN	1/30	Used

Loop 0100

Pos: 100	Repeat: 10
	Optional
Loop: 0100	Elements:
	N/A

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
100	N1	Name	O	1		Used
110	N2	Additional Name Information	O	1		Used
120	N3	Address Information	O	2		Used
130	N4	Geographic Location	O	1		Used
140	G61	Contact	O	3		Used

N1

Name

Pos: 100 Max: 1
 Heading - Optional
 Loop: 0100 Elements: 6

User Option (Usage): Used

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

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 All valid standard codes are used.	M	ID	2/3	Must use
N102	93	Name Description: Free-form name	X	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) All valid standard codes are used.	X	ID	1/2	Used
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Used
N105	706	Entity Relationship Code Description: Code describing entity relationship All valid standard codes are used.	O	ID	2/2	Used
N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used.	O	ID	2/3	Used

Syntax:

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

N2

Additional Name Information

Pos: 110	Max: 1
Heading - Optional	
Loop: 0100	Elements: 2

User Option (Usage): Used

To specify additional names or those longer than 35 characters in length

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>
N201	93	Name Description: Free-form name	M	AN	1/60	Must use
N202	93	Name Description: Free-form name	O	AN	1/60	Used

N3

Address Information

Pos: 120	Max: 2
Heading - Optional	
Loop: 0100	Elements: 2

User Option (Usage): Used

To specify the location of the named party

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
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4

Geographic Location

Pos: 130	Max: 1
Heading - Optional	
Loop: 0100	Elements: 6

User Option (Usage): Used

To specify the geographic place of the named party

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	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used
N405	309	Location Qualifier Description: Code identifying type of location All valid standard codes are used.	X	ID	1/2	Used
N406	310	Location Identifier Description: Code which identifies a specific location	O	AN	1/30	Used

Syntax:

1. C0605 - If N406 is present, then all of N405 are 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.

G61

Contact

Pos: 140	Max: 3
Heading - Optional	
Loop: 0100	Elements: 5

User Option (Usage): Used

To identify a person or office to whom communications should be directed

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>
G6101	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named All valid standard codes are used.	M	ID	2/2	Must use
G6102	93	Name Description: Free-form name	M	AN	1/60	Must use
G6103	365	Communication Number Qualifier Description: Code identifying the type of communication number All valid standard codes are used.	X	ID	2/2	Used
G6104	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used
G6105	443	Contact Inquiry Reference Description: Additional reference number or description to clarify a contact number	O	AN	1/20	Used

Syntax:

1. P0304 - If either G6103,G6104 is present, then all are required

Comments:

1. G6103 qualifies G6104.

AT1

Bill of Lading Line Item Number

Pos: 010 Max: 1
 Detail - Mandatory
 Loop: 0200 Elements: 1

User Option (Usage): Must use

To reference a Bill of Lading line number

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>
AT101	213	Lading Line Item Number Description: Sequential line number for a lading item	M	N0	1/3	Must use

L11

Business Instructions and Reference Number

Pos: 020	Max: 100
Detail - Optional	
Loop: 0200	Elements: 3

User Option (Usage): Used

To specify instructions in this business relationship or a reference number

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>
L1101	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
L1102	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used.	X	ID	2/3	Used
L1103	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

Syntax:

1. R0103 - At least one of L1101,L1103 is required
2. P0102 - If either L1101,L1102 is present, then all are required

AT3 Bill of Lading Rates and Charges

Pos: 030	Max: 1
Detail - Optional	
Loop: 0200	Elements: 7

User Option (Usage): Used

To specify Bill of Lading rates and charges

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>
AT301	58	Charge 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	M	N2	1/12	Must use
AT302	1600	Freight Rate Qualifier Description: Code qualifying the Bill of Lading freight rate All valid standard codes are used.	X	ID	2/2	Used
AT303	60	Freight Rate Description: Rate that applies to the specific commodity	X	R	1/9	Used
AT304	1601	Rated-as Qualifier Description: Code identifying the type of quantity on which the rate is based All valid standard codes are used.	X	ID	2/2	Used
AT305	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used
AT306	1602	Bill of Lading Charge Code Description: Code identifying the type of Bill of Lading charge All valid standard codes are used.	X	ID	3/3	Used
AT307	954	Percent Description: Percentage expressed as a decimal	X	R	1/10	Used

Syntax:

1. P0203 - If either AT302,AT303 is present, then all are required
2. E020607 - Only one of AT302,AT306,AT307 may be presented
3. R020607 - At least one of AT302,AT306,AT307 is required
4. P0405 - If either AT304,AT305 is present, then all are required
5. C0402 - If AT304 is present, then all of AT302 are required

Semantics:

1. AT301 is the charge per Bill of Lading line item.
2. AT307 is the percent discount that was used to determine the charge in AT301.

Comments:

1. AT305 is the quantity of units (miles, gallons, deficit weight, etc.) as defined by the qualifier in AT304.

AT4

Bill of Lading Description

Pos: 040	Max: 99
Detail - Optional	
Loop: 0200	Elements: 1

User Option (Usage): Used

To specify the lading description

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>
AT401	79	Lading Description Description: Description of an item as required for rating and billing purposes	M	AN	1/50	Must use

Loop 0210

Pos: 050	Repeat: 1
	Optional
Loop: 0210	Elements:
	N/A

To specify Bill of Lading quantity, weight, and commodity classification

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
050	AT2	Bill of Lading Line Item Detail	O	1		Used
060	MAN	Marks and Numbers	O	999999		Used
070	SPO	Shipment Purchase Order Detail	O	999999		Used

6. AT206 is the total number of pieces contained on the pallets, skids or slip sheets identified in AT201.
7. AT207 is the packaging form of the units on the pallet, skid, or slip sheet identified in AT202.
8. AT208 indicates if the carrier is required to verify the number of cartons on the pallet, slip sheet, or skid. A "Y" indicates that the carrier is required to verify the number of cartons. An "N" indicates that the carrier is not required to verify the number of cartons. If AT208 is not present in the segment a code of "N" is assumed.
9. AT209 is the National Motor Freight Classification Number.

MAN Marks and Numbers

Pos: 060 Max: 999999
 Detail - Optional
 Loop: 0210 Elements: 6

User Option (Usage): Used

To indicate identifying marks and numbers for shipping containers

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>
MAN01	88	Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87) All valid standard codes are used.	M	ID	1/2	Must use
MAN02	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48	Must use
MAN03	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used
MAN04	88	Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87) All valid standard codes are used.	X	ID	1/2	Used
MAN05	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	X	AN	1/48	Used
MAN06	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used

Syntax:

1. P0405 - If either MAN04,MAN05 is present, then all are required
2. C0605 - If MAN06 is present, then all of MAN05 are required

Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments:

1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

SPO Shipment Purchase Order Detail

Pos: 070 Max: 999999
 Detail - Optional
 Loop: 0210 Elements: 8

User Option (Usage): Used

To specify the purchase order details for a shipment

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>
SPO01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use
SPO02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used
SPO03	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	X	ID	2/2	Used
SPO04	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used
SPO05	188	Weight Unit Code Description: Code specifying the weight unit All valid standard codes are used.	X	ID	1/1	Used
SPO06	81	Weight Description: Numeric value of weight	X	R	1/10	Used
SPO07	647	Application Error Condition Code Description: Code indicating application error condition All valid standard codes are used.	O	ID	1/3	Used
SPO08	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used

Syntax:

1. P0304 - If either SPO03,SPO04 is present, then all are required
2. P0506 - If either SPO05,SPO06 is present, then all are required

Semantics:

1. SPO02 is the department number.
2. SPO04 is the total quantity for the purchase order.
3. SPO06 is the total weight for the purchase order.
4. SPO07 indicates the data error condition relative to the shipment management information.
5. SPO08 is used to specify sorting and/or segregating reference numbers for each receiving location (processing area).

Loop 0220

Pos: 080	Repeat: 999999
Optional	
Loop: 0220	Elements: N/A

To reference a line number in a transaction set

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
080	LX	Assigned Number	O	1		Used
090	MAN	Marks and Numbers	O	999999		Used
100	SPO	Shipment Purchase Order Detail	O	999999		Used

LX

Assigned Number

Pos: 080	Max: 1
Detail - Optional	
Loop: 0220	Elements: 1

User Option (Usage): Used

To reference a line number in a transaction set

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

MAN Marks and Numbers

Pos: 090 Max: 999999
 Detail - Optional
 Loop: 0220 Elements: 6

User Option (Usage): Used

To indicate identifying marks and numbers for shipping containers

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>
MAN01	88	Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87) All valid standard codes are used.	M	ID	1/2	Must use
MAN02	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48	Must use
MAN03	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used
MAN04	88	Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87) All valid standard codes are used.	X	ID	1/2	Used
MAN05	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	X	AN	1/48	Used
MAN06	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used

Syntax:

1. P0405 - If either MAN04,MAN05 is present, then all are required
2. C0605 - If MAN06 is present, then all of MAN05 are required

Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments:

1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

SPO Shipment Purchase Order Detail

Pos: 100 Max: 999999
 Detail - Optional
 Loop: 0220 Elements: 8

User Option (Usage): Used

To specify the purchase order details for a shipment

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>
SPO01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use
SPO02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used
SPO03	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	X	ID	2/2	Used
SPO04	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used
SPO05	188	Weight Unit Code Description: Code specifying the weight unit All valid standard codes are used.	X	ID	1/1	Used
SPO06	81	Weight Description: Numeric value of weight	X	R	1/10	Used
SPO07	647	Application Error Condition Code Description: Code indicating application error condition All valid standard codes are used.	O	ID	1/3	Used
SPO08	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used

Syntax:

1. P0304 - If either SPO03,SPO04 is present, then all are required
2. P0506 - If either SPO05,SPO06 is present, then all are required

Semantics:

1. SPO02 is the department number.
2. SPO04 is the total quantity for the purchase order.
3. SPO06 is the total weight for the purchase order.
4. SPO07 indicates the data error condition relative to the shipment management information.
5. SPO08 is used to specify sorting and/or segregating reference numbers for each receiving location (processing area).

Loop 0230

Pos: 110 Repeat: 2
 Optional
 Loop: 0230 Elements:
 N/A

To identify a person or office to whom communications should be directed

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
110	G61	Contact	O	1		Used
120	L11	Business Instructions and Reference Number	O	5		Used
130	LH6	Hazardous Certification	O	6		Used
140		Loop 0231	M		25	Must use

G61

Contact

Pos: 110	Max: 1
Detail - Optional	
Loop: 0230	Elements: 5

User Option (Usage): Used

To identify a person or office to whom communications should be directed

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>
G6101	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named All valid standard codes are used.	M	ID	2/2	Must use
G6102	93	Name Description: Free-form name	M	AN	1/60	Must use
G6103	365	Communication Number Qualifier Description: Code identifying the type of communication number All valid standard codes are used.	X	ID	2/2	Used
G6104	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used
G6105	443	Contact Inquiry Reference Description: Additional reference number or description to clarify a contact number	O	AN	1/20	Used

Syntax:

1. P0304 - If either G6103,G6104 is present, then all are required

Comments:

1. G6103 qualifies G6104.

L11

Business Instructions and Reference Number

Pos: 120	Max: 5
Detail - Optional	
Loop: 0230	Elements: 3

User Option (Usage): Used

To specify instructions in this business relationship or a reference number

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>
L1101	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
L1102	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used.	X	ID	2/3	Used
L1103	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

Syntax:

1. R0103 - At least one of L1101,L1103 is required
2. P0102 - If either L1101,L1102 is present, then all are required

LH6 Hazardous Certification

Pos: 130	Max: 6
Detail - Optional	
Loop: 0230	Elements: 4

User Option (Usage): Used

To specify the name of the person certifying that the shipment complies with the regulations and/or the actual certification

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>
LH601	93	Name Description: Free-form name	O	AN	1/60	Used
LH602	272	Hazardous Certification Code Description: Code indicating the form of the hazardous certification All valid standard codes are used.	X	ID	1/1	Used
LH603	273	Hazardous Certification Declaration Description: Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations	X	AN	1/25	Used
LH604	273	Hazardous Certification Declaration Description: Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations	O	AN	1/25	Used

Syntax:

1. P0203 - If either LH602,LH603 is present, then all are required

Loop 0231

Pos: 140	Repeat: 25
Mandatory	
Loop: 0231	Elements: N/A

To specify the hazardous commodity identification reference number and quantity

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
140	LH1	Hazardous Identification Information	M	1		Must use
150	LH2	Hazardous Classification Information	O	4		Used
160	LH3	Hazardous Material Shipping Name	O	10		Used
170	LFH	Freeform Hazardous Material Information	O	20		Used
180	LEP	EPA Required Data	O	3		Used
190	LH4	Canadian Dangerous Requirements	O	1		Used
200	LHT	Transborder Hazardous Requirements	O	3		Used
210	L11	Business Instructions and Reference Number	O	5		Used

LH1

Hazardous Identification Information

Pos: 140 Max: 1
 Detail - Mandatory
 Loop: 0231 Elements:
 11

User Option (Usage): Must use

To specify the hazardous commodity identification reference number and quantity

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>
LH101	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	M	ID	2/2	Must use
LH102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity	M	N0	1/7	Must use
LH103	277	UN/NA Identification Code Description: Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	O	ID	6/6	Used
LH104	200	Hazardous Materials Page Description: The United Nations page number as required for the international transport of hazardous materials	O	AN	1/6	Used
LH105	22	Commodity Code Description: Code describing a commodity or group of commodities	O	AN	1/30	Used
LH106	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	O	ID	2/2	Used
LH107	380	Quantity Description: Numeric value of quantity	O	R	1/15	Used
LH108	595	Compartment ID Code Description: Code identifying the compartment in a compartmentalized tank car All valid standard codes are used.	O	ID	1/1	Used
LH109	665	Residue Indicator Code Description: Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded All valid standard codes are used.	O	ID	1/1	Used
LH110	254	Packing Group Code Description: Code indicating degree of danger in terms of Roman number I, II or III	O	ID	1/3	Used
LH111	1375	Interim Hazardous Material Regulatory Number Description: Identifies the current regulatory version number used for hazardous materials shipments	O	AN	1/5	Used

Comments:

1. LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
2. LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
3. In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

LH2

Hazardous Classification Information

Pos: 150	Max: 4
Detail - Optional	
Loop: 0231	Elements: 11

User Option (Usage): Used

To specify the hazardous notation and endorsement 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>
LH201	215	Hazardous Classification Description: The hazardous classification corresponding to the shipping name of the hazardous commodity	O	ID	1/30	Used
LH202	983	Hazardous Class Qualifier Description: Code qualifying hazardous class All valid standard codes are used.	O	ID	1/1	Used
LH203	218	Hazardous Placard Notation Description: The placard notation corresponding to the hazard class of the hazardous commodity	O	ID	14/40	Used
LH204	222	Hazardous Endorsement Description: The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O	ID	4/25	Used
LH205	759	Reportable Quantity Code Description: Code to identify presence of hazardous substance All valid standard codes are used.	O	ID	2/2	Used
LH206	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	X	ID	2/2	Used
LH207	408	Temperature Description: Temperature	X	R	1/4	Used
LH208	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	X	ID	2/2	Used
LH209	408	Temperature Description: Temperature	X	R	1/4	Used
LH210	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	X	ID	2/2	Used
LH211	408	Temperature Description: Temperature	X	R	1/4	Used

Syntax:

1. P0607 - If either LH206,LH207 is present, then all are required
2. P0809 - If either LH208,LH209 is present, then all are required

3. P1011 - If either LH210,LH211 is present, then all are required

Semantics:

1. LH206 and LH207 indicate the flashpoint temperature.
2. LH208 and LH209 indicate the control temperature.
3. LH210 and LH211 indicate the emergency temperature.

LH3

Hazardous Material Shipping Name

Pos: 160	Max: 10
Detail - Optional	
Loop: 0231	Elements: 4

User Option (Usage): Used

To specify the hazardous material shipping name and additional descriptive requirements

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>
LH301	224	Hazardous Material Shipping Name Description: The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	X	AN	1/25	Used
LH302	984	Hazardous Material Shipping Name Qualifier Description: Qualifier indicating the source (regulatory) of the proper shipping name All valid standard codes are used.	X	ID	1/1	Used
LH303	985	N.O.S. Indicator Code Description: Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified All valid standard codes are used.	O	ID	3/3	Used
LH304	1073	Yes/No Condition or Response Code Description: Code indicating a Yes or No condition or response All valid standard codes are used.	O	ID	1/1	Used

Syntax:

1. P0102 - If either LH301,LH302 is present, then all are required

Semantics:

1. If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.

LFH

Freeform Hazardous Material Information

Pos: 170	Max: 20
Detail - Optional	
Loop: 0231	Elements: 7

User Option (Usage): Used

To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments

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>
LFH01	808	Hazardous Material Shipment Information Qualifier Description: Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements All valid standard codes are used.	M	ID	3/3	Must use
LFH02	809	Hazardous Material Shipment Information Description: Specific information required by law for hazardous material shipments	M	AN	1/25	Must use
LFH03	809	Hazardous Material Shipment Information Description: Specific information required by law for hazardous material shipments	O	AN	1/25	Used
LFH04	1023	Hazard Zone Code Description: Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone All valid standard codes are used.	O	ID	1/1	Used
LFH05	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	X	ID	2/2	Used
LFH06	380	Quantity Description: Numeric value of quantity	X	R	1/15	Used
LFH07	380	Quantity Description: Numeric value of quantity	O	R	1/15	Used

Syntax:

1. P0506 - If either LFH05,LFH06 is present, then all are required

Semantics:

1. LFH06 indicates activity of the radioactive material.
2. LFH07 indicates transport index of the radioactive material.

LEP EPA Required Data

Pos: 180 Max: 3
 Detail - Optional
 Loop: 0231 Elements: 4

User Option (Usage): Used

To specify the Environmental Protection Agency (EPA) information relating to shipments of hazardous material

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>
LEP01	806	EPA Waste Stream Number Code Description: Waste stream number applicable to the movement of hazardous waste as determined by government regulations	O	ID	4/6	Used
LEP02	807	Waste Characteristics Code Description: Waste characteristics as defined by regulatory requirements	O	ID	12/16	Used
LEP03	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	X	ID	2/2	Used
LEP04	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

Syntax:

1. P0304 - If either LEP03,LEP04 is present, then all are required

Semantics:

1. LEP03 is used to identify the state or province responsible for the hazardous waste number contained in LEP04.
2. LEP04 is the hazardous waste number.

LH4

Canadian Dangerous Requirements

Pos: 190	Max: 1
Detail - Optional	
Loop: 0231	Elements: 12

User Option (Usage): Used

To specify additional Transport Canada requirements covering transportation of dangerous goods in Canada

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>
LH401	238	Emergency Response Plan Number Description: The identity number of a specific hazardous emergency response plan that is assigned by the Director General of Canada	O	AN	1/12	Used
LH402	364	Communication Number Description: Complete communications number including country or area code when applicable	O	AN	1/80	Used
LH403	254	Packing Group Code Description: Code indicating degree of danger in terms of Roman number I, II or III	O	ID	1/3	Used
LH404	230	Subsidiary Classification Description: Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O	ID	1/3	Used
LH405	230	Subsidiary Classification Description: Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O	ID	1/3	Used
LH406	230	Subsidiary Classification Description: Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O	ID	1/3	Used
LH407	271	Subsidiary Risk Indicator Description: Code identifying the type of subsidiary risk All valid standard codes are used.	O	ID	1/2	Used
LH408	267	Net Explosive Quantity Description: Net weight of the explosive quantity of the hazardous commodity	X	N0	1/6	Used
LH409	805	Canadian Hazardous Notation Description: Notation required by Canadian regulatory agencies	O	AN	1/25	Used
LH410	986	Special Commodity Indicator Code Description: Code indicating 'Special Commodity' notation on operational waybill as identified by the Transportation of Dangerous Goods Act and Regulation (TDG) All valid standard codes are used.	O	ID	1/1	Used
LH411	364	Communication Number Description: Complete communications number including country or area code when	O	AN	1/80	Used

LH412	355	applicable Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.	X	ID	2/2	Used
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Syntax:

1. P0812 - If either LH408,LH412 is present, then all are required

Semantics:

1. LH411 is an additional telephone number.

Comments:

1. LH402 is used for the emergency response plan telephone number.
2. LH404 is for the first subsidiary classification.
3. LH405 is for the second subsidiary classification.
4. LH406 is for the third subsidiary classification.

LHT**Transborder Hazardous Requirements**

Pos: 200	Max: 3
Detail - Optional	
Loop: 0231	Elements: 3

User Option (Usage): Used

To specify the placard information required by the second government agency when shipment is to cross into another country

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>
LHT01	215	Hazardous Classification Description: The hazardous classification corresponding to the shipping name of the hazardous commodity	O	ID	1/30	Used
LHT02	218	Hazardous Placard Notation Description: The placard notation corresponding to the hazard class of the hazardous commodity	O	ID	14/40	Used
LHT03	222	Hazardous Endorsement Description: The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O	ID	4/25	Used

L11

Business Instructions and Reference Number

Pos: 210	Max: 5
Detail - Optional	
Loop: 0231	Elements: 3

User Option (Usage): Used

To specify instructions in this business relationship or a reference number

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>
L1101	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
L1102	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used.	X	ID	2/3	Used
L1103	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

Syntax:

1. R0103 - At least one of L1101,L1103 is required
2. P0102 - If either L1101,L1102 is present, then all are required

SE

Transaction Set Trailer

Pos: 220	Max: 1
Detail - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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 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

Comments:

- 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

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

User Option (Usage): Must use

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