



204 Motor Carrier Load Tender

X12 Version 4010 - 204 OUTBOUND

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Table of Contents

ICS Interchange Control Structures	4
Segment: ISA Interchange Control Header.....	5
Segment: GS Functional Group Header.....	7
Segment: GE Functional Group Trailer	8
Segment: IEA Interchange Control Trailer	9
204 Motor Carrier Load Tender	10
Segment: ST Transaction Set Header	12
Segment: B2 Beginning Segment for Shipment Information Transaction	13
Segment: B2A Set Purpose	14
Segment: AT5 Bill of Lading Handling Requirements.....	15
Segment: PLD Pallet Information	16
Segment: NTE Note/Special Instruction	17
Segment: N1 Name.....	18
Segment: N3 Address Information	19
Segment: N4 Geographic Location	20
Segment: G61 Contact.....	21
Segment: N7 Equipment Details	22
Segment: S5 Stop Off Details.....	23
Segment: L11 Business Instructions and Reference Number	24
Segment: G62 Date/Time	25
Segment: AT8 Shipment Weight, Packaging and Quantity Data.....	26
Segment: N1 Name.....	27
Segment: N3 Address Information	28
Segment: N4 Geographic Location	29
Segment: G61 Contact.....	30
Segment: L5 Description, Marks and Numbers.....	31
Segment: AT8 Shipment Weight, Packaging and Quantity Data.....	33
Segment: G61 Contact.....	34
Segment: LH1 Hazardous Identification Information.....	35
Segment: LH2 Hazardous Classification Information	37
Segment: LH3 Hazardous Material Shipping Name	38
Segment: LFH Freeform Hazardous Material Information.....	39

MercuryGate EDI 204 Outbound Standard, V3.0

Segment: OID Order Identification Detail	40
Segment: L5 Description, Marks and Numbers	41
Segment: AT8 Shipment Weight, Packaging and Quantity Data	42
Segment: G61 Contact	43
Segment: L3 Total Weight and Charges	44
Segment: SE Transaction	45
204 Example	46
Appendix A: Document Revision Log	48

ICS Interchange Control Structures

Introduction:

The purpose of this standard is to define the control structures for the electronic interchange of one or more encoded business transactions including the EDI (Electronic Data Interchange) encoded transactions of Accredited Standards Committee X12. This standard provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of this envelope.

Notes:

- This standard specifies the control segments to be utilized when a trading partner sends an 'ISA' header.
- The information in this document was modified specifically for the MercuryGate implementation.
- Mandatory elements are marked with 'M' under the Attributes or Requirement Designator.

Pos. No.	Seg. ID	Name	Req Des	Max Use
010	ISA	Interchange Control Header	M	1
030	GS	Functional Group Header	M	1
040	GE	Functional Group Trailer	M	1
050	IEA	Interchange Control Trailer	M	1

NOTE: Please note that the DATE field on the ISA is a mandatory length of 6, but all other date fields are a mandatory length of 8.

Segment: ISA Interchange Control Header**Position:** 010**Loop:****Level:****Usage:** Mandatory**Max Use:** 1**Purpose:** To start and identify an interchange of zero or more functional groups and interchange-related control segments**Data Element Summary**

Ref.	Data	Element Name	Attributes		
Des.	Element				
ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information. 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2
ISA02	I02	Authorization Information 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.	M	AN	10/10
ISA03	I03	Security Information Qualifier Code to identify the type of information in the Security Information 00 No Security Information Present (No Meaningful Information in I04)	M	ID	2/2
ISA04	I04	Security Information 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.	M	AN	10/10
ISA05	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. Codes agreed to by trading partners.	M	ID	2/2
ISA06	I06	Interchange Sender ID 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. Codes agreed to by trading partners.	M	AN	15/15

ISA07	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. Codes agreed to by trading partners.	M	ID	2/2
ISA08	I07	Interchange Receiver ID 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. Codes agreed to by trading partners.	M	AN	15/15
ISA09	I08	Interchange Date Date of the interchange.	M	DT	6/6
ISA10	I09	Interchange Time Time of the interchange	M	TM	4/4
ISA11	I10	Interchange Control Standards Identifier Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer U U.S. EDI Community of ASC X12, TDCC, and UCS	M	ID	1/1
ISA12	I11	Interchange Control Version Number This version number covers the interchange control segments. 00401 ASC X12 Standards version 4010	M	ID	5/5
ISA13	I12	Interchange Control Number A control number assigned by the interchange sender	M	N0	9/9
ISA14	I13	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment (TA1) 0 No Acknowledgement Requested	M	ID	1/1
ISA15	I14	Test Indicator Code to indicate whether data enclosed by this interchange envelope is test or production. P Production Data T Test Data	M	ID	1/1
ISA16	I15	Component Element Separator 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 composite data structure; this value must be different than the data element separator and the segment terminator. Colon “:” is the default. Other values are configurable.	M		1/1

Segment: GS Functional Group Header**Position:** 030**Loop:****Level:****Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the beginning of a functional group and to provide control information**Data Element Summary**

Ref.	Data		Attributes		
<u>Des.</u>	<u>Element</u>	<u>Name</u>			
GS01	479	Functional Identifier Code Code identifying a group of application related transaction sets: SM Motor Carrier Load Tender (204)	M	ID	2/2
GS02	142	Application Sender's Code Code identifying party sending transmission. Codes agreed to by trading partners.	M	AN	2/15
GS03	124	Application Receiver's Code Code identifying party receiving transmission. Codes agreed to by trading partners.	M	AN	2/15
GS04	373	Date Date expressed as CCYYMMDD	M	DT	8/8
GS05	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8
GS06	28	Group Control Number Assigned number originated and maintained by the sender	M	N0	1/9
GS07	455	Responsible Agency Code Code used in conjunction with Data Element 480 to identify the issuer of the standard X - Accredited Standards Committee X12	M	ID	1/2

GS08 480 Version / Release / Industry Identifier Code **M AN 1/12**
 Code indicating the version, release, sub-release, and industry identifier of the EDI standard being used
 004010 Draft Standards Approved for Publication by ASC X12

Segment: GE Functional Group Trailer

Position: 040

Loop:

Level:

Usage: Mandatory

Max Use: 1

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

Data Element Summary

Ref.	Data	Name	Attributes		
Des.	Element				
GE01	97	Number of Transaction Sets Included	M	N0	1/6
		Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element			
GE02	28	Group Control Number	M	N0	1/9
		Assigned number originated and maintained by the sender.			

Segment: IEA Interchange Control Trailer**Position:** 050**Loop:****Level:****Usage:** Mandatory**Max Use:** 1**Purpose:** To define the end of an interchange of zero or more functional groups and interchange-related control segments**Data Element Summary**

Ref.	Data				
Des.	Element	Name	Attributes		
IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in an interchange	M	N0	1/5
IEA02	I12	Interchange Control Number A control number assigned by the interchange sender.	M	N0	9/9

204 Motor Carrier Load Tender**Functional Group ID=SM****Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Motor Carrier Load Tender Transaction Set (204) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to allow shippers or other interested parties to offer (tender) a shipment to a full load (truckload) motor carrier including detailed scheduling, equipment requirements, commodities, and shipping instructions pertinent to a load tender. It is not to be used to provide a motor carrier with data relative to a Less-than-Truckload bill of lading, pick-up notification, or manifest.

MG Usage	Pos. No.	Seg. ID	Name	Req. Des.	Max Use
M	010	ST	Transaction Set Header	M	1
M	020	B2	Beginning Segment for Shipment Information Transaction	M	1
M	030	B2A	Set Purpose	M	1
	110	AT5	Bill of Lading Handling Requirements	O	6
	120	PLD	Pallet Information	O	1
	130	NTE	Notes/Special Instruction	O	10
Loop ID - 0100					Repeat 5
M	140	N1	Name	O	1
	160	N3	Address Information	O	2
M	170	N4	Geographic Location	O	1
	190	G61	Contact	O	3
Loop ID - 0200					Repeat 10
M	200	N7	Equipment Details	O	1
Loop ID - 0300					Repeat 999
M	010	S5	Stop Off Details	M	1
	020	L11	Business Instructions and Reference Number	O	50
M	030	G62	Date/Time	O	2
M	040	AT8	Shipment Weight, Packaging and Quantity Data	O	1
Loop ID - 0310					Repeat 1
M	070	N1	Name	O	1
	090	N3	Address Information	O	2
M	100	N4	Geographic Location	O	1
	120	G61	Contact	O	3

		Loop ID – 0320		Repeat 99
130	L5	Description, Marks and Numbers	O	1
135	AT8	Shipment Weight, Packaging and Quantity Data	O	1
		Loop ID - 0325		Repeat 99
140	G61	Contact	O	1
		Loop ID - 0330		Repeat 25
143	LH1	Hazardous Identification Information	O	1
144	LH2	Hazardous Classification Information	O	4
145	LH3	Hazardous Material Shipping Name	O	10
146	LFH	Freeform Hazardous Material Information	O	20
		Loop ID – 0350		Repeat 999
150	OID	Order Identification Detail	O	1
		Loop ID – 0360		Repeat 99
190	L5	Description, Marks and Numbers	O	1
195	AT8	Shipment Weight, Packaging and Quantity Data	O	1
		Loop ID - 0365		Repeat 99
200	G61	Contact	O	1
M	010	L3 Total Weight and Charges	O	1
M	020	SE Transaction Set Trailer	M	1

Segment: ST Transaction Set Header**Position:** 010**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the start of a transaction set and to assign a control number**Syntax Notes:**

Semantic Notes: 01 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).

Data Element Summary

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

Segment: B2 Beginning Segment for Shipment Information Transaction

Position: 020

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

Purpose: To transmit basic data relating to shipment information

Semantic Notes: 02 B202 contains the Standard Carrier Alpha Code

Data Element Summary

MG	Ref.	Data	Name	Attributes		
Usage	Des.	Element				
M	B202	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O/Z	ID	2/4
M	B204	145	Shipment Identification Number Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification.	O	AN	1/30
M	B206	146	Shipment Method of Payment Code identifying payment terms for transportation charges	M	ID	2/2

Segment: B2A Set Purpose**Position:** 030**Loop:****Level:** Heading**Usage:** Mandatory**Max Use:** 1**Purpose:** To allow for positive identification of transaction set purpose**Data Element Summary**

MG	Ref.	Data	Name	Attributes		
Usage	Des.	Element				
M	B2A01	353	Transaction Set Purpose code	M	ID	2/2
			Code identifying purpose of transaction set			
			00 Original			
			01 Cancellation			
			04 Change			
M	B2A02	346	Application Type	O	ID	2/2
			Code identifying an application			
			LT Load Tender			

Segment: AT5 Bill of Lading Handling Requirements**Position:** 110**Loop:****Level:** Heading**Usage:** Optional**Max Use:** 6**Purpose:** To identify Bill of Lading handling and service requirements

Syntax Notes: **01** E0103 - Only one of AT501 or AT503 may be present.
02 E0203 - Only one of AT502 or AT503 may be present.

Data Element Summary

MG	Ref.	Data	Name	Attributes		
Usage	Des.	Element				
	AT501	152	Special Handling Code Code specifying special transportation handling instructions <i>Used only in these two cases.</i> HM Endorsed as Hazardous Material <i>When any item is marked as hazmat.</i> OPR Perishable <i>When the commodity of any item starts with "food" (case insensitive)</i>	X	ID	2/3
	AT502	560	Special Services Code Code identifying the special service <i>Used for all other services listed on the load.</i>	X	ID	2/10
	AT503	153	Special Handling Description Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate <i>Only used when code in AT502 is not available.</i>	X	AN	2/30

Segment: PLD Pallet Information**Position:** 120**Loop:****Level:** Heading**Usage:** Optional**Max Use:** 1**Purpose:** To specify pallet information including quantity, exchange, and weight**Data Element Summary**

MG	Ref.	Data				
Usage	Des.	Element	Name	Attributes		
M	PLD01	406	Quantity of Pallets Shipped	M	N0	1/3
			Number of pallets shipped			

Segment: NTE Note/Special Instruction**Position:** 130**Loop:****Level:** Heading**Usage:** Optional**Max Use:** 10**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction

Comments: 00 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine process-able. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Data Element Summary

MG	Ref.	Data	Name	Attributes		
Usage	Des.	Element				
	NTE01	363	Note Reference Code Code identifying the functional area or purpose for which the note applies <i>Only used when configured to send distance (mileage) in NTE02. Value of code is configurable.</i>	O	ID	3/3
M	NTE02	352	Description A free-form description to clarify the related data elements and their content <i>When NTE01 is not empty, NTE02 is distance. Otherwise, NTE02 contains the special instructions from the load.</i>	M	AN	1/80

Segment: N1 Name**Position:** 140**Loop:** 0100**Level:** Heading**Usage:** Optional**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code

Semantic Notes: 02 R0203 - At least one of N102 or N103 is required.
 03 P0304 - If either N103 or N104 is present, then the other is required.

Comments: 04 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.

Data Element Summary

MG	Ref.	Data	Name	Attributes		
Usage	Des.	Element				
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3
			BT Bill-to-Party			
M	N102	93	Name Free-form name	X	AN	1/60
	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code	X	ID	1/2
			93 Code assigned by the organization originating the transaction set			
	N104	67	Identification Code Code identifying a party or other code	X	AN	2/80

Segment: N3 Address Information**Position:** 160**Loop:** 0100**Level:** Heading**Usage:** Optional**Max Use:** 2**Purpose:** To identify the location of the named party**Data Element Summary**

MG	Ref.	Data	Name	Attributes		
Usage	Des.	Element				
M	N301	166	Address Information Address Information	M	AN	1/55
	N302	166	Address Information Address Information	O	AN	1/55

Segment: N4 Geographic Location**Position:** 170**Loop:** 0100**Level:** Heading**Usage:** Optional**Max Use:** 1**Purpose:** To specify the geographic place of the named party**Comments:** 01 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

02 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

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

Segment: G61 Contact**Position:** 190**Loop:** 0100**Level:** Heading**Usage:** Optional**Max Use:** 3**Purpose:** To identify a person or office to whom communications should be directed**Syntax Notes:** 03 P0304 - If either G6103 or G6104 is present, then the other is required.**Comments:** 03 G6103 qualifies G6104.**Data Element Summary**

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	G6101	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact	M	ID	2/2
M	G6102	93	Name Free-form name	M	AN	1/60
M	G6103	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone FX Facsimile	X	ID	2/2
M	G6104	364	Contact Inquiry Reference Additional reference number or description to clarify a contact number	X	AN	1/80

Segment: N7 Equipment Details**Position:** 200**Loop:** 0200**Level:** Heading**Usage:** Optional**Max Use:** 1**Purpose:** To identify the equipment**Syntax Notes:** 03 P0304 - If either N703 or N704 is present, then the other is required.**Comments:** *MG Usage: This segment is populated from the "Scheduled Equipment" section of the load. Not the "Equipment" section.***Data Element Summary**

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	N701	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number <i>The equipment's owning SCAC</i>	O	AN	1/4
M	N702	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	M	AN	1/10
M	N703	81	Weight Numeric value of weight	X	R	1/10
M	N704	187	Weight Qualifier Code defining the type of weight E Estimated Net Weight	X	ID	1/2
M	N711	40	Equipment Description Code Code identifying type of equipment used for shipment	O	ID	2/2

Segment: S5 Stop Off Details**Position:** 010**Loop:** 0300**Level:** Detail**Usage:** Mandatory**Max Use:** 1**Purpose:** To specify stop-off detail reference numbers and stop reason**Data Element Summary**

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	S501	165	Stop Sequence Number Identifying number for the specific stop and the sequence in which the stop is to be performed	M	N0	1/3
M	S502	163	Stop Reason Code Code specifying the reason for the stop <div> <div>PL</div> <div>CL</div> <div>PU</div> <div>CU</div> <div>Part Load</div> <div>Complete Load</div> <div>Part Unload</div> <div>Complete Unload</div> </div>	M	ID	2/2

**Segment: L11 Business Instructions and
Reference Number**

Position: 020

Loop: 0300

Level: Detail

Usage: Optional

Max Use: 50

Purpose: To specify instructions in this business
relationship or a reference number

Syntax Notes: 01 R0103 - At least one of L1101 or L1103 is required.
01 P0102 - If either L1101 or L1102 is present, then the other
is required.

Data Element Summary

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	L1101	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30
M	L1102	128	Reference Identification Qualifier Code qualifying the Reference Identification <i>L11s are automatically generated for the following load reference types if the reference is present on the load. Others are generated as configured.</i>	X	ID	2/3
			<u>Code</u>	<u>Load Reference Type</u>		
			BM	BOL		
			CR	PRO		
			PO	PO Number		
			PO	Order Number		
			11	Customer Acct Number		
M	L1103	352	Description A free-form description to clarify the related data elements and their content	X	AN	1/80

Segment: G62 Date/Time**Position:** 030**Loop:** 0300**Level:** Detail**Usage:** Optional**Max Use:** 2**Purpose:** To specify pertinent dates and times

Syntax Notes:

- 01** R0103 - At least one of G6201 or G6203 is required.
- 01** P0102 - If either G6201 or G6202 is present, then the other is required.
- 03** P0304 - If either G6203 or G6204 is present, then the other is required.

Data Element Summary

MG	Ref.	Data	Attributes	
Usage	Des.	Element Name	ID	2/2
M	G6201	432 Date Qualifier	X	2/2
		Code specifying type of date		
		37 Ship Not Before Date		
		38 Ship Not Later Than Date		
		53 Deliver Not Before Date		
		54 Deliver Not Later Than Date		
M	G6202	373 Date	X	DT 8/8
		Date expressed as CCYYMMDD		
M	G6203	176 Time Qualifier	X	ID 1/2
		Code specifying the reported time		
		I Earliest Requested Pick Up Time		
		K Latest Requested Pick Up Time		
		G Earliest Requested Delivery Time		
		L Latest Requested Delivery Time		
M	G6204	337 Time	X	TM 4/8
		Time expressed in 24-hour clock time as HHMM		

**Segment: AT8 Shipment Weight, Packaging
and Quantity Data**

Position: 040

Loop: 0300

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify shipment details in terms of weight, and quantity of handling units

Syntax Notes: 01 P010203 - If either AT801, AT802 or AT803 are present, then the others are required.

Data Element Summary

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	AT801	187	Weight Qualifier Code defining the type of weight	X	ID	1/2
			G Gross Weight			
M	AT802	188	Weight Unit Code Code specifying the weight unit	X	ID	1/1
			K Kilograms			
			L Pounds			
M	AT803	81	Weight Numeric value of weight	X	R	1/10
M	AT805	80	Lading Quantity Number of units (pieces) of the lading commodity	O/Z	N0	1/7

Segment: N1 Name**Position:** 070**Loop:** 0310**Level:** Detail**Usage:** Optional**Max Use:** 1**Purpose:** To identify a party by type of organization, name, and code

Semantic Notes: 02 R0203 - At least one of N102 or N103 is required.
 03 P0304 - If either N103 or N104 is present, then the other is required.

Comments: 04 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.

Data Element Summary

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

Segment: N3 Address Information**Position:** 090**Loop:** 0310**Level:** Detail**Usage:** Optional**Max Use:** 2**Purpose:** To identify the location of the named party**Data Element Summary**

MG	Ref.	Data	Name	Attributes		
Usage	Des.	Element				
M	N301	166	Address Information Address Information	M	AN	1/55
	N302	166	Address Information Address Information	O	AN	1/55

Segment: N4 Geographic Location**Position:** 100**Loop:** 0310**Level:** Detail**Usage:** Optional**Max Use:** 1**Purpose:** To specify the geographic place of the named party**Comments:** 01 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

02 N402 is required only if city name (N401) is in the U.S. or Canada.

Semantic Notes: 06 C0605 - If N406 is present, then N405 is required.**Data Element Summary**

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

Segment: G61 Contact**Position:** 120**Loop:** 0310**Level:** Detail**Usage:** Optional**Max Use:** 3**Purpose:** To identify a person or office to whom communications should be directed**Syntax Notes:** 03 P0304 - If either G6103 or G6104 is present, then the other is required.**Comments:** 03 G6103 qualifies G6104.**Data Element Summary**

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	G6101	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named IC Information Contact	M	ID	2/2
M	G6102	93	Name Free-form name	M	AN	1/60
M	G6103	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone FX Facsimile	X	ID	2/2
M	G6104	364	Contact Inquiry Reference Additional reference number or description to clarify a contact number	X	AN	1/80

Segment: L5 Description, Marks and Numbers

Position: 130

Loop: 0320

Level: Detail

Usage: Optional

Max Use: 1

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

Syntax Notes: **03** P0304 - If either L503 or L504 is present, then the other is required.
07 C0706 - If L507 is present, then L506 is required.

Data Element Summary

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	L502	79	Lading Description Description of an item as required for rating and billing purposes	O	AN	1/50
	L503	22	Commodity Code Code describing a commodity or group of commodities <i>When L504 = N, this will be the NMFC.</i>	X	AN	1/30
	L504	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code N National Motor Freight Classification (NMFC)	X	ID	1/1
	L505	103	Packaging Code Code identifying the type of packaging	O	AN	3/5
	L506	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment <i>Primary Reference of the load</i>	X	AN	1/48

L507	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers	O	ID	1/2
		SI		Shipment ID	

**Segment: AT8 Shipment Weight, Packaging
and Quantity Data**

Position: 135

Loop: 0320

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify shipment details in terms of weight, and quantity of handling units

Syntax Notes: 01 P010203 - If either AT801, AT802 or AT803 are present, then the others are required.

Data Element Summary

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	AT801	187	Weight Qualifier Code defining the type of weight	X	ID	1/2
			G Gross Weight			
M	AT802	188	Weight Unit Code Code specifying the weight unit	X	ID	1/1
			K Kilograms			
			L Pounds			
M	AT803	81	Weight Numeric value of weight	X	R	1/10
M	AT805	80	Lading Quantity Number of units (pieces) of the lading commodity	O/Z	N0	1/7

Segment: G61 Contact**Position:** 140**Loop:** 0325**Level:** Detail**Usage:** Optional**Max Use:** 1**Purpose:** To identify a person or office to whom communications should be directed**Syntax Notes:** 03 P0304 - If either G6103 or G6104 is present, then the other is required.**Comments:** 03 G6103 qualifies G6104.**Data Element Summary**

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	G6101	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named HM Hazardous Material Contact	M	ID	2/2
M	G6102	93	Name Free-form name <i>"No Contact" if there is no contact information.</i>	M	AN	1/60
O	G6103	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	X	ID	2/2
O	G6104	364	Contact Inquiry Reference Additional reference number or description to clarify a contact number	X	AN	1/80

Segment: LH1 Hazardous Identification Information

Position: 143

Loop: 0330

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify the hazardous commodity identification reference number and quantity

- Comments:** **01** LH101 and LH102 are used to convey the number and type of packages for bulk and non-bulk movements.
06 LH106 and LH107 are used to convey the quantity or volume and unit of measure for non-bulk shipments only.

Data Element Summary

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	LH101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <div> <div>KG</div> <div>LB</div> <div>Kilogram</div> <div>Pound</div> </div>	M	ID	2/2
M	LH102	80	Lading Quantity Number of units (pieces) of the lading commodity	M	N0	1/7
O	LH103	277	UN/NA Identification Code 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
O	LH105	22	Commodity Code Code describing a commodity or group of commodities	O	AN	1/30

M	LH106	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <i>Item Package Type</i>	O	ID	2/2
M	LH107	380	Quantity Numeric value of quantity	O	R	1/15
O	LH110	254	Packing Group Code Code indicating degree of danger in terms of Roman number I, II or III	O	ID	1/3

Segment: LH2 Hazardous Classification Information

Position: 144

Loop: 0330

Level: Detail

Usage: Optional

Max Use: 4

Purpose: To specify the hazardous notation and endorsement information

Syntax Notes: **06** P0607 - If either LH206 or LH207 is present, then the other is required.

Semantic Notes: **06** LH206 and LH207 indicate the flashpoint temperature.

Data Element Summary

MG Usage	Ref. Des.	Data Element	Name	Attributes		
O	LH201	215	Hazardous Classification The hazardous classification corresponding to the shipping name of the hazardous commodity	O	ID	1/30
O	LH203	218	Hazardous Placard Notation The placard notation corresponding to the hazard class of the hazardous commodity	O	ID	14/40
O	LH206	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CE Centigrade, Celsius FA Fahrenheit	X/Z	ID	2/2
O	LH207	408	Temperature Temperature	X	R	1/4

Segment: LH3 Hazardous Material
Shipping Name

Position: 145

Loop: 0330

Level: Detail

Usage: Optional

Max Use: 10

Purpose: To specify the hazardous material shipping name and additional descriptive requirements

Syntax Notes: 01 P0102 - If either LH301 or LH302 is present, then the other is required.

Data Element Summary

MG	Ref.	Data				
<u>Usage</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>		
M	LH301	224	Hazardous Material Shipping Name The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	X	AN	1/25
M	LH302	984	Hazardous Material Shipping Name Qualifier Qualifier indicating the source (regulatory) of the proper shipping name D Domestic (United States) Shipping Name	X	ID	1/1
O	LH303	985	N.O.S. Indicator Code Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified NOS N.O.S. Regulatory Requirements Apply	O	ID	3/3

**Segment: LFH Freeform Hazardous
Material Information**

Position: 146

Loop: 0330

Level: Detail

Usage: Optional

Max Use: 20

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

Data Element Summary

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	LFH01	808	Hazardous Material Shipment Information Qualifier Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements	M	ID	3/3
			ADI Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper			
M	LFH02	809	Hazardous Material Shipment Information Specific information required by law for hazardous material shipments	M	AN	1/25

Segment: OID Order Identification Detail**Position:** 150**Loop:** 0350**Level:** Detail**Usage:** Optional**Max Use:** 1**Purpose:** To specify order identification detail**Syntax Notes:** 01 R0102 - At least one of OID01 or OID02 is required.**Semantic Notes:** 01 OID01 is the seller's order identification number.**Comments:** *MG Usage: This OID loop is only included when there are orders on the related shipments. One OID loop per shipment on the load.***Data Element Summary**

MG	Ref.	Data	Data Element Summary			
Usage	Des.	Element	Name	Attributes		
M	OID01	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <i>Shipment primary reference</i>	X/Z	AN	1/30
M	OID02	324	Purchase Order Number Identifying number for Purchase Order assigned by the purchaser <i>Order number</i>	X	AN	1/22

Segment: L5 Description, Marks and Numbers

Position: 190

Loop: 0360

Level: Detail

Usage: Optional

Max Use: 1

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

Data Element Summary

MG	Ref.	Data	Attributes		
Usage	Des.	Element	Name		
M	L502	79	Lading Description	O	AN 1/50
			Description of an item as required for rating and billing purposes		

**Segment: AT8 Shipment Weight, Packaging
and Quantity Data**

Position: 195

Loop: 0360

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify shipment details in terms of weight, and quantity of handling units

Syntax Notes: 01 P010203 - If either AT801, AT802 or AT803 are present, then the others are required.

Data Element Summary

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	AT801	187	Weight Qualifier Code defining the type of weight	X	ID	1/2
			G Gross Weight			
M	AT802	188	Weight Unit Code Code specifying the weight unit	X	ID	1/1
			L Pounds			
M	AT803	81	Weight Numeric value of weight <i>Line item ordered weight</i>	X	R	1/10
M	AT805	80	Lading Quantity Number of units (pieces) of the lading Commodity <i>Line item ordered quantity</i>	O/Z	N0	1/7

Segment: G61 Contact**Position:** 200**Loop:** 0365**Level:** Detail**Usage:** Optional**Max Use:** 1**Purpose:** To identify a person or office to whom communications should be directed**Syntax Notes:** 03 P0304 - If either G6103 or G6104 is present, then the other is required.**Comments:** 03 G6103 qualifies G6104.**Data Element Summary**

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	G6101	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named HM Hazardous Material Contact	M	ID	2/2
M	G6102	93	Name Free-form name <i>If telephone information is present but name is not, then name will be set to "No Contact"</i>	M	AN	1/60
O	G6103	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	X	ID	2/2
O	G6104	364	Contact Inquiry Reference Additional reference number or description to clarify a contact number	X	AN	1/80

Segment: L3 Total Weight and Charges**Position:** 010**Loop:****Level:** Summary**Usage:** Optional**Max Use:** 1**Purpose:** To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items**Syntax Notes:** 01 P0102 - If either L301 or L302 is present, then the other is required.

03 P0304 - If either L303 or L304 is present, then the other is required.

Semantic Notes: 05 L305 is the total charges.**Data Element Summary**

MG Usage	Ref. Des.	Data Element	Name	Attributes		
M	L301	81	Weight Numeric value of weight	X	R	1/10
M	L302	187	Weight Qualifier Code defining the type of weight G Gross Weight	X	ID	1/2
O	L303	60	Freight Rate Rate that applies to the specific commodity	X	R	1/9
O	L304	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value FR Flat Rate	X	ID	2/2
O	L305	58	Charge For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified	O/Z	N2	1/12
M	L311	80	Lading Quantity Number of units (pieces) of the lading commodity	O	N0	1/7

Segment: SE Transaction**Position:** 090**Loop:****Level:** Summary**Usage:** Mandatory**Max Use:** 1**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)**Comments:** 00 SE is the last segment of each transaction set**Data Element Summary**

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

204 Example

ISA*00* *00* *ZZ*MGSAMPLE *02*DAFG
 *140412*1532*U*00401*000000197*0*P*:
 GS*SM*MGSAMPLE*DAFG*20140412*153258*48*X*004010
 ST*204*000480001
 B2**DAFG**60468**PP
 B2A*00*LT
 AT5*HM
 N1*BT*Global Billing*93*1122
 N3*6549 Carlton Ave
 N4*Boca Raton*FL*33496*USA
 S5*1*CL
 L11*509941*PO*PO Number
 L11*509942*PO*PO Number
 L11*30244*CR*ShipmentID
 L11*30245*CR*ShipmentID
 G62*37*20140411*I*0800
 G62*38*20140411*K*1730
 AT8*G*L*6300.5**30
 N1*SH*General Products*93*6040
 N3*401 Franklin Drive
 N4*Cleveland*OH*44101*US
 G61*IC*Roger Smith*TE*888 366-3000
 L5**Hazardous item***PLT*30244*SI
 AT8*G*L*2000.0**20
 G61*HM*Steve Bennett*TE*999-888-7777
 LH1*LB*2000*UN2356**POC*PL*20***I
 LH2*3**placard details***FA*100.0
 LH3*Proper Shipping Name*D
 LFH*ADI*hazmat comments go here
 L5**Freight All Kinds***PLT*30245*SI
 AT8*G*L*4300.5**10
 S5*2*PU
 L11*509941*PO*PO Number
 L11*30244*CR*ShipmentID
 G62*53*20140520*G*0800
 G62*54*20140520*L*1700
 AT8*G*L*2000.0**20
 N1*CN*Fisher and Sons*93*0000501214
 N3*100 Omicron Rd
 N4*Long Prairie*MN*56347*US
 G61*IC*Delivery Contact*TE*525 344-3232
 L5**Hazardous item***PLT*30244*SI

AT8*G*L*2000.0**20
G61*HM*Steve Bennett*TE*999-888-7777
LH1*LB*2000*UN2356**POC*PL*20***I
LH2*3**placard details***FA*100.0
LH3*Proper Shipping Name*D
LFH*ADI*hazmat comments go here
S5*3*CU
L11*509942*PO*PO Number
L11*30245*CR*ShipmentID
G62*53*20130526*G*0800
G62*54*20130526*L*1600
AT8*G*L*4300.5**10
N1*CN*Delta Manufacturing*93*0000092255
N3*5101 Straight Blvd
N4*SHAKOPEE*MN*55379*US
G61*IC*Mary Anderson*TE*800-555-1212
L5**Freight All Kinds***PLT*30245*SI
AT8*G*L*4300.5**10
L3*6300.5*G*259.5*FR*25950*****30
SE*61*000480001
GE*1*59
IEA*1*000000197

Appendix A: Document Revision Log

<u>Version</u>	<u>Date</u>	<u>Change description</u>
3.0	5/1/14	Rewrite for V3