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Advantage   Delivered

KBX Technology Solutions, LLC
Electronic Data Interchange

ASC X12 4010 EDI Implementation Guidelines
204 Motor Carrier Load Tender

997 Functional Acknowledgment

Change Summary

Date	Action	Segment	Segment Description	Element	Description of Change
3/9/2021	Creation	All	All	All	This document has been created to supersede the previous document for KBX Logistics, LLC and the GPTSPP/GPTSPT/KBXL ISA / GS IDs- (Bruckert)
11/29/2022	Update	B2A	Must respond by time for B2A*00	B2A01	This document has been updated to clearly define 990 requirements for carriers
1/30/2023	Update	L11	Extended Reference	L1102	Added acceptable codes
3/13/2023	Update	G61	Contact	All	Updated segment condition
3/13/2023	Update	OID	Order Identification Detail	OID04	Added acceptable codes
3/21/2023	Update	G62	Date Qualifier	G6201	Added acceptable codes to header and body
3/23/2023	Update	G62	Time Qualifier	G6203	Added acceptable codes to header and body
4/25/2023	Update	L3	Total Weight and Charges	L309 & L310	Updated to conditional
1/15/2024	Update	AT8	Volume Unit Qualifier	AT806	Updated to all valid standard codes
1/15/2024	Update	OID	Unit or Basis for Measurement Code	OID08	Updated to all valid standard codes
1/15/2024	Update	L3	Volume Unit Qualifier	L310	Updated to all valid standard codes
1/15/2024	Update	N1	Entity Identifier Code	N101	Added note to indicate that any valid standard code may be sent in the N101 element

Load Tender Requirements

This document identifies all data elements KBX Technology Solutions, LLC will provide to our transportation vendors when sending electronic load tenders (204s). The KBX Technology Solutions, LLC EDI team handles KBX Logistics' EDI transactions, as well as Georgia-Pacific, Flint Hills Resources and other KBX Tech customer freight.

Please contact the KBX Technologies or Orderful Help Desk if you have any questions.

A Note to Carriers Migrating Load Tender from GPTSPP/GPTPGP to KBXTECH:

- Contact information has changed from GP EDI to Orderful and KBX Technology Solutions
- GPTSPP and GPTPGP connections are still maintained by GP EDI but our intent is that KBXTECH will retire these ISA IDs once all carriers have been migrated.
- A single ISA GS receiver ID (KBXTECH) will be used for **both Test and Production messages**
- ISA_15 will indicate the destination of the inbound message.
  - Only an ISA_15 of 'P' will go to the "Live" stream in Orderful and into our Production environment
  - An ISA_15 of 'T' will route messages ONLY to the "Test" stream in Orderful and can only be sent to our Test environment.

- *Specific to 204s:*
  - *Reference Identification Qualifiers (L11_02) of 4F, URL, EL, 22 have been added to the header level L11 and a note that any valid values in Code Set 128 could be sent in the L11_02.*
  - *Reference Description (L11_03) has been added at the header level to house additional data elements tied to the reference qualifiers BM, URL, EL and 22.*
  - *997 Functional Acknowledgement is required for the Carrier to provide when they receive any of our 204 messages.*
  - *The 997 specification has been added to the bottom of this document rather than being part of a separate document.*

- Our former EDI Platform may not have thrown errors for certain invalid data outside of tolerance noted in GPTSPP or KBXL specifications. In contrast, Orderful's platform is designed kick out any invalid data received that is outside the tolerance noted in our KBXTECH specifications.
- Carriers are required to subscribe to notifications in Orderful's platform.
- Any errored data received in platform will need to be resent correctly to successfully reach KBXTECH.

Electronic Commerce Help Desk - Contact List

Name	Support Area	Submit Request	E-mail
Orderful Help Center	EDI Connectivity / Orderful Portal / Outage questions	https://orderful.zendesk.com/hc/en-us/requests/new	Support@Orderful.com
KBX Technology Solutions	General Onboarding, Completeness and Compliance questions		VisibilityOperations@kbxlogistics.com KBXTECHB2Bsupport@kbx.global

Document Flow - Truckload Operations

204= Load Tender   990=Acceptance/Decline   214=Shipment Status

------Truck/Trailer not loaded------

KBX Technology Solutions, LLC		**Carrier**
204 Original Load Tender Offer		
B2A*00*LT	→	
	←	997s Functional Acknowledgement
	←	990s Response to Load Tender
	←	214s Delivery Appointments
	←	214s Pick-Up Appointments
204 LT Change: B2A*04*LT	→	
	←	214s Confirmed Delivery Appointments
	←	214s Exceptions – Shipment Status
204 LT Cancel : B2A*01*LT	→	

------Truck/Trailer is loaded------

	←	214s Pick-Up In Transit Status and Position Reporting
	←	214s Arrival at Pick-Up Location.
	←	214s Estimated Arrival to Pickup
	←	214s Carrier Departed Pick-Up Location with Shipment
	←	214s Estimated Arrival to Delivery
	←	214s Delivery In Transit Status and Position Reporting
	←	214s Arrival at Destination
	←	214s Departed From Delivery

204 Motor Carrier Load Tender

Functional Group ID=$\textbf{SM}$

Introduction:

This Standard 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.

Page No.	Pos No.	Seg ID	Name	Req. Des.	Max Use	Loop Repeat	Notes and Comments
7	001	ISA	Interchange Control Header	M	1		
9	002	GS	Functional Group Header	M	1		
10	010	ST	Transaction Set Header	M	1		
11	020	B2	Beginning Segment for Shipment Information Transaction	M	1		
12	030	B2A	Set Purpose	M	1		
13	080	L11	Business Instruction and Reference Number	M	50		
14	090	G62	Date/Time	M	1		**N1**
15	100	MS3	Interline Information	M	1		
16	110	AT5	Bill of Lading Handling Requirements	O	6		
17	120	PLD	Pallet Information	O	1		
18	125	LH6	Hazardous Certification	O	6		
19	130	NTE	Note/Special Instruction	O	10		
			LOOP ID – 0100			5	**N2**
20	140	N1	Name	M	1		
21	160	N3	Address Information	X	2		
22	170	N4	Geographic Location	X	1		
23	190	G61	Contact	O	3		
			LOOP ID – 0200			10	
24	200	N7	Equipment Details	M	1		
26	210	M7	Seal Numbers	O	2		
			LOOP ID – 0300			999	
27	010	S5	Stop Off Details	M	1		
28	020	L11	Business Instructions and Reference Number	M	50		
29	030	G62	Date/Time	M	2		**N3**
31	040	AT8	Shipment Weight, Packaging and Quantity Data	M	1		**N4**
32	060	AT5	Bill of Lading Handling Requirements	O	6		
33	063	PLD	Pallet Information	O	1		
34	065	NTE	Note/Special Instruction	O	20		
			LOOP ID – 0310			2	
35	070	N1	Name	M	1		**N5**
36	090	N3	Address Information	M	2		
37	100	N4	Geographic Location	M	1		
38	120	G61	Equipment or Container Owner and	O	3		

Page No.	Pos No.	Seg ID	Name Type	Req. Des.	Max Use	Loop Repeat	Notes and Comments
			LOOP ID – 0350			999	**N6**
39	150	OID	Order Identification Detail	M	1		
			LOOP ID – 0360			99	**N7**
40	190	L5	Description, Marks and Letters	M	1		
41	010	L3	Total Weight and Charges	M	1		
42	020	SE	Transaction Set Trailer	M	1		
43	030	GE	Functional Group Trailer	M	1		
44	040	IEA	Interchange Control Number	M	1		

Transaction Set Notes

1. Segment G62 in the header will be used to convey the must-respond-by date and time when responding to a 204 transaction as applicable and also to convey the Trailer Loading plans and actual date and time.
2. Loop 0100 is used to convey name and address detail relative to the bill-to party controlling the freight or other shipment level name and/or address information to include Vessel Name, Shipper, Steamship Company when applicable. It is not to convey ship from or ship to detail which should be handled within loop 0300.
3. Segment G62 will be used in loop 0300, not 0350.
4. Segment AT8 in loop 0300 is intended for the transmitting of total weight, quantity, and volume relative to the specific stop-off.
5. Loop 0310 is used to convey name and address detail relative to the Ship-From and Ship-To as they pertain to the particular stop.
6. Loop 0350 conveys the seller's order level detail.
7. Use the L5 segment in loop 0360 to relay commodity detail.

KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines
ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

Segment:	**ISA** Interchange Control Header	
Position:	001	
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	
Syntax Notes:		
Semantic Notes:		
Comments:		
Notes:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ISA01	I01	**Authorization Information Qualifier**	**M ID 2/2**
			Code to identify the type of information in the Authorization Information	
			00 No Authorization Information Present (No Meaningful Information in I02)	
M	ISA02	I02	**Authorization Information**	**M AN 10/10**
			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)	
			Spaces	
M	ISA03	I03	**Security Information Qualifier**	**M ID 2/2**
			Code to identify the type of information in the Security Information	
			00 No Security Information Present (No Meaningful Information in I04)	
M	ISA04	I04	**Security Information**	**M AN 10/10**
			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)	
			Spaces	
M	ISA05	I05	**Interchange ID Qualifier**	**M ID 2/2**
			Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	
			Carrier Interchange ID Qualifier	
M	ISA06	I06	**Interchange Sender ID**	**M AN 15/15**
			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	
			Carrier Interchange ID	
M	ISA07	I05	**Interchange ID Qualifier**	**M ID 2/2**
			Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	
			ZZ Mutually Defined	
M	ISA08	I07	**Interchange Receiver ID**	**M AN 15/15**
			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	
			KBXTECH for test and production	
M	ISA09	I08	**Interchange Date**	**M DT 6/6**
			Date of the interchange	
			YYMMDD	

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M	ISA10	I09	**Interchange Time**		M	TM 4/4

Time of the interchange

HHMM

M	ISA11	I10	**Interchange Control Standards Identifier**		M	ID 1/1

Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer

Refer to 004010 Data Element Dictionary for acceptable code values.

M	ISA12	I11	**Interchange Control Version Number**		M	ID 5/5

This version number covers the interchange control segments

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

M	ISA13	I12	**Interchange Control Number**		M	N0 9/9

A control number assigned by the interchange sender

M	ISA14	I13	**Acknowledgment Requested**		M	ID 1/1

Code sent by the sender to request an interchange acknowledgment (TA1)

Note: This is an informational only field. The value sent in this element alone does not drive the generation of an acknwledgment 997.

M	ISA15	I14	**Usage Indicator**		M	ID 1/1

Code to indicate whether data enclosed by this interchange envelope is test, production or information

	P		Production Data shows "Live" Environment in Orderful
	T		Test Data shows "Test" Environment in Orderful

NOTE: An indicator of T will not be passed into the production "Live" environment.

M	ISA16	I15	**Component Element Separator**		M	AN 1/1

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

>

Segment:	**GS** Functional Group Header	
Position:	002	
Loop:		
Level:		
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the beginning of a functional group and to provide control information	
Syntax Notes:		
Semantic Notes:	**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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	GS01	479	**Functional Identifier Code**	M	ID 2/2
			Code identifying a group of application related transaction sets		
			SM Transportation Load Tender Request Message (204)		
M	GS02	142	**Application Sender's Code**	M	AN 2/15
			Code identifying party sending transmission; codes agreed to by trading partners		
			Carrier Application ID		
M	GS03	124	**Application Receiver's Code**	M	AN 2/15
			Code identifying party receiving transmission. Codes agreed to by trading partners		
			KBXTECH for test and production		
M	GS04	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		
			CCYYMMDD		
M	GS05	337	**Time**	M	TM 4/8
			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)		
			HHMM		
M	GS06	28	**Group Control Number**	M	N0 1/9
			Assigned number originated and maintained by the sender		
M	GS07	455	**Responsible Agency Code**	M	ID 1/2
			Code used in conjunction with Data Element 480 to identify the issuer of the standard		
			X Accredited Standards Committee X12		
M	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, 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 sub release, 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		
			004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997		

Segment:	**ST** **Transaction Set Header**
Position:	010
Loop:	
Level:	
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 204 selects the Motor Carrier Load Tender Transaction Set).
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ST01	143	**Transaction Set Identifier Code**	**M 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	
Syntax Notes:		
Semantic Notes:	1	B202 contains the Standard Carrier Alpha Code (SCAC) of the carrier that will receive the bill of lading.
Comments:	1	B202 is mandatory for transaction set 204.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	B202	140	**Standard Carrier Alpha Code**	M	ID 2/4
			Standard Carrier Alpha Code		
			Assigned carrier SCAC Code		
M	B204	145	**Shipment Identification Number**	M	AN 1/30
			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.		
			This Shipment ID MUST be returned on EDI transactions 210, 214 and 990s exactly as sent in 204. The format will change depending on sending location.		
	B205	188	**Weight Unit Code**	O	ID 1/1
			Code specifying the weight unit		
			K Kilograms		
			L Pounds		
M	B206	146	**Shipment Method of Payment**	M	ID 2/2
			Code identifying payment terms for transportation charges		
			CC Collect		
			PP Prepaid (by Seller)		
			TP Third Party Pay		

Segment:	**B2A** Set Purpose
Position:	030
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To allow for positive identification of transaction set purpose
Syntax Notes:	
Semantic Notes:	
Comments:	Loads may be sent to carrier up to 72 hours in advance of expected ship date
Notes:	Examples:

Original Load Tender - B2A*00*LT

- Our system will automatically generate an Original (Initial) Load Tender; this 204 is a load tender offer. KBX expects 990s to be returned within 2 hours of the original 204 load tender. Failure to do so could result in you being removed from the load.

Change to Load Tender - B2A*04*LT

- If carrier agrees to accept the Load Tender changes no response other than the 997 functional acknowledgment is required.
- If carrier does not accept the Load Tender changes carrier must call the originator of the EDI message.

Cancellation of Load Tender - B2A*01*LT

- Indicates shipment is canceled.
- No response other than the 997 functional acknowledgment is required.

Data Element Summary

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

Segment:	**L11** Business Instructions and Reference Number
Position:	080
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	50
Purpose:	To specify instructions in this business relationship or a reference number
Syntax Notes:	1 If either L1101 or L1102 is present, then the other is required.
Semantic Notes:	
Comments:	1 All loads will have a BM.
	2 **Any valid values that are part of Code Set 128 could be sent in the L11_02.**

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	L1101	127	**Reference Identification**	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
M	L1102	128	**Reference Identification Qualifier**	M ID 2/3
			Code qualifying the Reference Identification	

References of significance and their meanings are below:

BM	Bill of Lading Number
	Note: VICS BOL is 17 characters in length.
CMN	Continuous Move Number
RZ	Returned Goods Authorization Number
SI	Shipper Pickup Number
4F	Carrier's Assigned Shipper Number *
	-4F Reference will be sent to a carrier in the 204 from KBXTECH and should be returned on the corresponding 990, 214, and 210 messages as it was sent.
URL	Uniform Resource Locator- static portion of the link (Note: Only Utilized for carriers participating in our eBOL program)
EL	Electronic Device Pin Number- dynamic portion of the eBOL program link (the Token)
22	Special Charge or Allowance Code (only used for certain customers)
UUI	Universal Unique Identifier (UUID) qualifier
UNC	United Nations Standard Products and Service Code (UNSPSC) qualifier
MHC	Mexico Hazardous Code qualifier
MTC	Mexico Tariff Rate qualifier

NOTE: Any valid values that are part of Code Set 128 could be sent on an outbound 204.

M	L1103	352	**Description**	M AN 1/80
			A free-form description to clarify the related data elements and their content	

(NOTE: This is used for
- BM Bill of Lading reference as a unique token representing the

transaction from our TMS) It is not required to be consumed by our carriers.
- URL and EL references will use the L11_03 for capturing the URL and Token used for our eBOL program.
- For customers requiring rates to be sent to the carrier, a 22 reference type will be used with description field containing the rate with implied decimals)

Segment:	**G62** Date/Time
Position:	090
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To specify pertinent dates and times
Syntax Notes:	
Semantic Notes:	
Comments:	Date Qualifier 64 will only be used on B2A01 0f 16 (Proposal).

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	G6201	432	**Date Qualifier**	M ID 2/2

Code specifying type of date

07	Effective Date
10	Requested Ship Date/Pick-up Date
64	Must Respond By
69	Scheduled Pick Up Date
CL	Date Loading Completed
EP	Earliest Pickup Date
LC	Date Loading Commenced
LP	Latest Pickup Date
37	Ship Not Before Date (Pickup)
38	Ship Not Later Than Date (Pickup)
53	Deliver Not Before Date (Delivery)
54	Deliver No Later Than Date (Delivery)
68	Requested Delivery Date (Delivery)
70	Scheduled Delivery Date (Delivery)
78	Delivery Appointment Scheduled Date (Delivery)

	Ref. Des.	Data Element	Name	Attributes
M	G6202	373	**Date**	M DT 8/8

Date expressed as CCYYMMDD

	Ref. Des.	Data Element	Name	Attributes
M	G6203	176	**Time Qualifier**	X ID 1/2

Code specifying the reported time

W	Effective Time
Y	Requested Pick-up Time
1	Must Respond By
I	Earliest Requested Pickup Time
K	Latest Requested Pickup Time
U	Scheduled Pickup Time
A	Actual Departure Time
EP	Earliest Pickup Time
LP	Latest Pickup Time
3	Delivery Appointment Scheduled Time (Delivery)
G	Earliest Requested Deliver Time (Delivery)
L	Latest Requested Delivery Time (Delivery)
X	Scheduled Delivery Time (Delivery)
Z	Requested Delivery Time (Delivery)
ED	Earliest Delivery Time (Delivery)
LD	Latest Delivery Time (Delivery)

| M | G6204 | 337 | **Time** | | X TM 4/8 |

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 | G6205 | 623 | **Time Code** | | O ID 2/2 |

Code identifying the time.
      LT   Local Time

	Segment:	# MS3 Interline Information
	Position:	100
	Loop:	
	Level:	Heading
	Usage:	Mandatory
	Max Use:	1
	Purpose:	To identify the interline carrier and relevant data
	Syntax Notes:	**1** MS301, MS302 and MS304 are required.
	Semantic Notes:	**1** MS301 is the Standard Carrier Alpha Code (SCAC) of the interline carrier.
	Comments:	
	Notes:	This segment is used to identify the SCAC and mode of transportation.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	MS301	140	**Standard Carrier Alpha Code**	**M ID 2/4**
			Standard Carrier Alpha Code SCAC	
M	MS302	133	**Routing Sequence Code**	**M ID 1/2**
			Code describing the relationship of a carrier to a specific shipment movement	
			B Origin/Delivery Carrier (Any Mode)	
			O Origin Carrier (Air, Motor or Ocean)	
			1 1st Carrier After Origin Carrier	
			2 2nd Carrier After Origin Carrier	
			3 3rd Carrier After Origin Carrier	
			4 4th Carrier After Origin Carrier	
M	MS304	91	**Transportation Method/Type Code**	**M ID 1/2**
			Code specifying the method or type of transportation for the shipment	
			A Air	
			B Barge	
			CE Customer Pick-up/Customer Expense	
			D Parcel Post	
			FL Flatbed	
			H Customer Pick-up	
			J Motor	
			LT Less Than Trailer Load (LTL)	
			MB Motor (Bulk Carrier)	
			MP Motor (Package Carrier)	
			N Private Vessel	
			O Containerized Ocean	
			R Rail	
			X Intermodal (Piggyback)	

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:	1 Only one of AT501 or AT503 may be present
	2 Only one of AT502 or AT503 may be present
Semantic Notes:	
Comments:	
Notes:	TOF represents an intermodal move by the carrier.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AT501	**152**	**Special Handling Code**	**X ID 2/3**

Code specifying special transportation handling instructions

TOF	Trailer on Flat Car
GSS	Greater Security Service
HZD	Hazardous Cargo

Ref. Des.	Data Element	Name	Attributes
AT502	**560**	**Special Services Code**	**X ID 2/3**

Code identifying the special service

AT503	**153**	**Special Handling Description**	**X ID 2/3**

Free-form additional description of special handling instructions to appear on
printed bill if special handling code is not adequate.

53 FT 102 IN TRAILER
28 FT FLATBED SETS
28 FT 140 IN TRAILER HIGH CUBE
40 FT CONTAINER
48 FT FLATBED TRAILER
CURTAIN SIDE
HEAVY HAUL
HIGH CUBE
ROLLER BED
ROLL DOOR
TRAILER SET

Segment:	**PLD** Pallet Information

Position:	120
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify pallet information including quantity, exchange, and weight
Syntax Notes:	
Semantic Notes:	
Comments:	

Data Element Summary

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

Segment:	**LH6** **Hazardous Certification**	
Position:	125	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	6	
Purpose:	To specify the name of the person certifying that the shipment complies with the regulations and/or the actual certification	
Syntax Notes:	.	
Semantic Notes:		
Comments:		

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
LH601	93	Name	O AN 1/60
		Free-form name	

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		
Syntax Notes:	NTE02 is required.		
Semantic Notes:			
Comments:	**1**	The NTE segment permits free-form informational/data.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	NTE02	352	Description	M AN 1/80
			A free-form description to clarify the related data elements and their content	

Segment:	**N1** Name	
Position:	140	
Loop:	0100	Mandatory
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	**1** N101 and N102 are required.	
Semantic Notes:		
Comments:		

Notes: Any valid standard codes may be sent on the N101 element.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code**	**M ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual	
			BT Bill To Party	
			FV Vessel Name	
			SH Shipper	
			SS Steamship Company	
M	**N102**	**93**	**Name**	**M AN 1/60**
			Free-form name	

Segment:	**N3** Address Information
Position:	160
Loop:	0100 Mandatory
Level:	Heading
Usage:	Conditional
Max Use:	2
Purpose:	To specify the location of the named party
Syntax Notes:	N301 is required.
Semantic Notes:	
Comments:	Only used for N101 of BT – Bill To Party

Data Element Summary

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

Segment:	**N4** Geographic Location
Position:	170
Loop:	0100 Mandatory
Level:	Heading
Usage:	Conditional
Max Use:	1
Purpose:	To specify the geographic place of the named party
Syntax Notes:	1 N401, N402 and N403 are required.
	2 N404 is required if country is NOT USA.
Semantic Notes:	
Comments:	1 Only used for N101 of BT – Bill To Party

Data Element Summary

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

CA	CANADA
CAN	CANADA
MX	MEXICO
MEX	MEXICO
US	UNITED STATES OF AMERICA
USA	UNITED STATES OF AMERICA

Segment:	**G61** Contact
Position:	190
Loop:	0100 Optional
Level:	Heading
Usage:	Optional
Max Use:	3
Purpose:	To identify a person or office to whom communications should be directed
Syntax Notes:	1 If either G6103 or G6104 is present, then the other is required.
Semantic Notes:	
Comments:	1 G6103 qualifies G6104.
Notes:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	G6101	366	**Contact Function Code**	**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named		
			IC Information Contact		
M	G6102	93	**Name**	**M**	**AN 1/60**
			Free-form name		
	G6103	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			EM Electronic Mail (eMail)		
			FX Facsimile		
			TE Telephone		
	G6104	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable or complete eMail address.		

Segment:	**N7**	**Equipment Details**		

Position:	200
Loop:	0200 Mandatory
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To identify the equipment
Syntax Notes:	
Semantic Notes:	
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N702	207	**Equipment Number**	M AN 1/10

Sequencing or serial part of an equipment unit's identifying number.

The element will be blank if the equipment number is not available.

	Ref. Des.	Data Element	Name	Attributes
M	N711	40	**Equipment Description Code**	M ID 2/2

Code identifying type of equipment used for shipment

AF	AIR FREIGHT
BO	BARGE OPEN
BR	BARGE
BX	BOXCAR
CH	CHASSIS
CN	CONTAINER
DD	DOUBLE DROP TRAILER
FT	FLAT BED TRAILER
HV	HIGH CUBE VAN
LU	LOAD/UNLOAD DEVICE ON EQUIPEMNT
OV	OPEN TOP VAN
RA	FIXED-RACK, FLAT-BED TRAILER
RD	FIXED-RACK, DOUBLE DROP TRAILER
RS	FIXED-RACK, SINGLE-DROP TRAILER
RT	CONTROLLED TEMP TRAILER (REEFER)
SD	SINGLE-DROP TRAILER
ST	REMOVABLE SIDE TRAILER
TA	TRAILER, HEATED/INSULATED/VENTILATED
TF	TRAILER, DRY FREIGHT
TG	TRAILER, TANK (GAS)
TI	TRAILER, INSULATED
TJ	TRAILER, TANK (CHEMICALS)
TK	TRAILER, TAN (FOOD GRADE-LIQUID)
TL	TRAILER (NOT OTHERWISE SPECIFIED)
TM	TRAILER, INSULATE/VENTILATED
TP	TRAILER, PNEUMATIC
TQ	TRAILER, ELECTRIC HEAT
TV	TRUCK, VAN
TW	TRAILER, REFRIGERATED
VE	VESSEL, OCEAN

	Ref. Des.	Data Element	Name	Attributes
M	N715	567	**Equipment Length**	M N0 4/5

Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)

Length of Trailer

			Format: FFII (F=Feet, I=Inches)		
M	N720	65	**Height**	M	R 1/8
			Vertical dimension of an object measured when the object is in the upright position		
			Height of Trailer		
			Format: III (I=Inches)		

Segment:	**M7** Seal Numbers	
Position:	210	
Loop:	0200	Mandatory
Level:	Heading	
Usage:	Optional	
Max Use:	2	
Purpose:	To record seal numbers used and the organization that applied the seals	
Syntax Notes:		
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**M701**	**225**	**Seal Number**	**M**	**AN 2/15**
			Unique number on seal used to close a shipment		
	M702	**225**	**Seal Number**	**O**	**AN 2/15**
			Unique number on seal used to close a shipment		
	M703	**225**	**Seal Number**	**O**	**AN 2/15**
			Unique number on seal used to close a shipment		
	M704	**225**	**Seal Number**	**O**	**AN 2/15**
			Unique number on seal used to close a shipment		

Segment:	**S5** Stop Off Details
Position:	010
Loop:	0300 Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify stop-off detail reference numbers and stop reason
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Stop sequence numbering scheme is 1, 2, 3, etc. to 999 where the initial pickup stop is always 1.

Data Element Summary

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

Segment:	**L11** Business Instructions and Reference Number	
Position:	020	
Loop:	0300	Mandatory
Level:	Detail	
Usage:	Mandatory	
Max Use:	50	
Purpose:	To specify instructions in this business relationship or a reference number	
Syntax Notes:	**1**	L1101 is required.
	2	If either L1101 or L1102 is present, then the other is required.
Semantic Notes:		
Comments:		
Notes:	Must provide internal Delivery Number(s) (Order) on inbound 214	
	Customer PO Number(s) is optional on 210.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	L1101	127	**Reference Identification**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
M	L1102	128	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			PO is the customer's purchase order number		
			VN is our internal delivery number and is used on all 204's		

CO	Customer order#
IL	Internal order#
PO	Purchase Order Number
SI	Shippers identifying#
VN	Vendor Order Number

Segment:	**G62** Date/Time
Position:	030
Loop:	0300 Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	2
Purpose:	To specify pertinent dates and times
Syntax Notes:	**1** G6201 is required.
	2 If either G6201 or G6202 is present, then the other is required.
	3 If either G6203 or G6204 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	G6201	432	**Date Qualifier**	M ID 2/2

Code specifying type of date

Pickup:

10	Requested Ship Date/Pick-up Date
37	Ship Not Before Date
CL	Date Loading Completed
EP	Earliest Pickup Date
LP	Latest Pickup Date
CL	Date Loading Completed
LC	Date Loading Commenced
07	Effective Date
64	Must Respond By
69	Scheduled Pickup Date

Delivery:

53	Deliver Not Before Date
54	Deliver No Later Than Date
68	Requested Delivery Date
70	Scheduled Delivery Date
78	Delivery Appointment Scheduled Date

	Ref. Des.	Data Element	Name	Attributes
M	G6202	373	**Date**	M DT 8/8

Date expressed as CCYYMMDD

	Ref. Des.	Data Element	Name	Attributes
	G6203	176	**Time Qualifier**	X ID 1/2

Code specifying the reported time

Pickup:

I	Earliest Requested Pickup Time
K	Latest Requested Pickup Time
U	Scheduled Pickup Time
Y	Requested Pickup Time
A	Actual Departure Time
W	Effective Time
1	Must Respond By
EP	Earliest Pick-up Time
LP	Latest Pick-up Time

Delivery:

3	Delivery Appointment Scheduled Time
G	Earliest Requested Deliver Time
L	Latest Requested Delivery Time
X	Scheduled Delivery Time
Z	Requested Delivery Time
ED	Earliest Delivery Time
LD	Latest Delivery Time

G6204   **337**   **Time**   **X**   **TM 4/8**
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)

G6205   **623**   **Time Code**   **O**   **ID 2/2**
Code identifying the time
        LT   Local Time

Segment:	**AT8** Shipment Weight, Packaging and Quantity Data
Position:	040
Loop:	0300 Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify shipment details in terms of weight, and quantity of handling units
Syntax Notes:	**1** If any of AT801 AT802 or AT803 is present, then all are required.
	2 If either AT806 or AT807 is present, then the other is required.
Semantic Notes:	**1** AT804 is the quantity of handling units that are not unitized (for example a carton). When added to the quantity in AT805, it is the total quantity of handling units in the shipment.
	2 AT805 is the quantity of handling units that are unitized (for example on a pallet or slip sheet). When added to the quantity in AT804 it is the total quantity of handling units for the shipment.
Comments:	

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
AT801	**187**	**Weight Qualifier**	**X**	**ID 1/2**
		Code defining the type of weight		
		G Gross Weight		
AT802	**188**	**Weight Unit Code**	**X**	**ID 1/1**
		Code specifying the weight unit		
		K Kilograms		
		L Pounds		
AT803	**81**	**Weight**	**X**	**R 1/10**
		Numeric value of weight		
		Total Weight at stop off.		
AT804	**80**	**Lading Quantity**	**O**	**N0 1/7**
		Number of units (pieces) of the lading commodity		
		This is the number of non-unitized shipping units (e.g. cartons).		
AT805	**80**	**Lading Quantity**	**O**	**N0 1/7**
		Number of units (pieces) of the lading commodity		
		This is the number of unitized shipping units (e.g. a full pallet that counts as one unit).		
AT806	**184**	**Volume Unit Qualifier**	**X**	**ID 1/1**
		Code identifying the volume unit		
		All valid standard codes are used.		
AT807	**183**	**Volume**	**X**	**R 1/8**
		Value of volumetric measure		

Segment:	**AT5** Bill of Lading Handling Requirements
Position:	060
Loop:	0300 Mandatory
Level:	Detail
Usage:	Optional
Max Use:	6
Purpose:	To identify Bill of Lading handling and service requirements
Syntax Notes:	**1** Only one of AT501 or AT503 may be present.
	2 Only one of AT502 or AT503 may be present.
Semantic Notes:	
Comments:	
Notes:	1. Special handling and/or services unique to stop off.
	2. Will use the code 'ZZZ' in the AT501 element. ZZZ = Carrier Confirm Delivery Appointment.
	3. Will use the code 'ZZ' in the AT502 element. ZZ= Carrier Call for Delivery Appointment.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AT501	**152**	**Special Handling Code**	**X ID 2/3**

Code specifying special transportation handling instructions

761	Written Proof of Delivery
DRO	Drop-Off Delivery
EXT	Extra Labor
	Carrier must supply additional labor
LD	Loading Devices (liftgate/pallet jack required)
OTD	Time of Delivery and Signature Required
ZZZ	Mutually Defined
RO	Rush Order

Ref. Des.	Data Element	Name	Attributes
AT502	**560**	**Special Services Code**	**X ID 2/10**

Code identifying the special service

ZZ	Carrier Call for Delivery Appointment
C1	Shipper Load and Count
C2	Carrier Load and Count
CC	Carrier Unload
CU	Consignee Unload
D0031	Driver Assisted Unloading
ID	Inside Delivery
LI	Shipper Load, Carrier Count

Ref. Des.	Data Element	Name	Attributes
AT503	**153**	**Special Handling Description**	X AN 2/30

Free-form description of special handling instructions

Used to communicate time restrictions associated with the AT5-01 of 'ZZZ' and the AT5-02 of 'ZZ'.

i.e. Confirm appt 48 hr in advance
       Call for appt 24 hr in advance
       Schedule appt 48 hr in advance
       Please call to schedule appt

Used to communicate loading devices associated with the AT5-01 or 'LD'.

i.e. Pallet jack Required
       Lift Gate Required
       Pallet Jack/Lift Gate Required

Segment:	**PLD** Pallet Information				
Position:	063				
Loop:	0300	Mandatory			
Level:	Detail				
Usage:	Optional				
Max Use:	1				
Purpose:	To specify pallet information including quantity, exchange, and weight				
Syntax Notes:	.				
Semantic Notes:					
Comments:					

Data Element Summary

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

Segment:	**NTE** Note/Special Instruction	
Position:	065	
Loop:	0300	Mandatory
Level:	Detail	
Usage:	Optional	
Max Use:	20	
Purpose:	To transmit information in a free-form format, if necessary, for comment or special instruction	
Syntax Notes:		
Semantic Notes:		
Comments:	**1**	The NTE segment permits free-form informational/data.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	NTE02	352	Description	M AN 1/80
			A free-form description to clarify the related data elements and their content	

Segment:	**N1** Name	
Position:	070	
Loop:	0310	Mandatory
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	1	N101 and N102 are required.

2If either N103 or N104 is present, then the other is required.

Semantic Notes:

Comments:

Notes: Ship-From identifies the Pickup point.
Ship-To identifies the Delivery point.
Any valid standard codes may be sent on the N101 element.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N101	98	**Entity Identifier Code**	**M ID 2/3**

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

	SF	Ship From
	ST	Ship To

	Ref. Des.	Data Element	Name	Attributes
M	N102	93	**Name**	**M AN 1/60**

Free-form name

	Ref. Des.	Data Element	Name	Attributes
M	N103	66	**Identification Code Qualifier**	**M ID 1/2**

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

The ID code qualifier will be defined only if this location is assigned a location code.

	93	Code assigned by the organization originating the transaction set

	Ref. Des.	Data Element	Name	Attributes
M	N104	67	**Identification Code**	**M AN 2/80**

Code identifying a party or other code

Location code.

Segment:	**N3** Address Information		
Position:	090		
Loop:	0310	Mandatory	
Level:	Detail		
Usage:	Mandatory		
Max Use:	2		
Purpose:	To specify the location of the named party		
Syntax Notes:			
Semantic Notes:			
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N301	166	**Address Information**	M AN 1/55
			Address information	
			Ship From/Ship To Address	
	N302	166	**Address Information**	O AN 1/55
			Address information	
			Additional Ship From/Ship To Address	

Segment:	**N4** Geographic Location		
Position:	100		
Loop:	0310	Mandatory	
Level:	Detail		
Usage:	Mandatory		
Max Use:	1		
Purpose:	To specify the geographic place of the named party		
Syntax Notes:	**1**	N401, N402, and N403 required.	
	2	N404 is required if the country is NOT USA.	
Semantic Notes:			
Comments:			

Data Element Summary

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

CA	CANADA
CAN	CANADA
MX	MEXICO
MEX	MEXICO
US	UNITED STATES OF AMERICA
USA	UNITED STATES OF AMERICA

Segment:	**G61** Contact	
Position:	120	
Loop:	0310	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	3	
Purpose:	To identify a person or office to whom communications should be directed	
Syntax Notes:	1	If either G6103 or G6104 is present, then the other is required.
Semantic Notes:		
Comments:	1	G6103 qualifies G6104.
Notes:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	G6101	366	**Contact Function Code**	**M ID 2/2**
			Code identifying the major duty or responsibility of the person or group named	
			IC Information Contact	
M	G6102	93	**Name**	**M AN 1/60**
			Free-form name	
	G6103	365	**Communication Number Qualifier**	**X ID 2/2**
			Code identifying the type of communication number	
			EM Electronic Mail (eMail)	
			FX Facsimile	
			TE Telephone	
	G6104	364	**Communication Number**	**X AN 1/80**
			Complete communications number including country or area code when applicable or complete eMail address.	

Segment:	**OID** Order Identification Detail	
Position:	150	
Loop:	0350 Mandatory	
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify order identification detail	
Syntax Notes:	1 OID02, OID04, OID05, OID06, OID07, OID08 and OID09 are required.	
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**OID02**	**324**	**Purchase Order Number**	**M**	**AN 1/22**
			Identifying number for Purchase Order assigned by the orderer/purchaser		
M	**OID04**	**355**	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**
			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	**OID05**	**380**	**Quantity**	**M**	**R 1/15**
			Numeric value of quantity		
			Total Quantity for PO.		
M	**OID06**	**188**	**Weight Unit Code**	**M**	**ID 1/1**
			Code specifying the weight unit		
			K Kilograms		
			L Pounds		
M	**OID07**	**81**	**Weight**	**M**	**R 1/10**
			Numeric value of weight		
			Total Weight for PO.		
M	**OID08**	**184**	**Volume Unit Qualifier**	**M**	**ID 1/1**
			Code identifying the volume unit		
			All valid standard co		

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M	**OID09**	**183**	**Volume**	**M**	**R 1/8**

Value of volumetric measure
Total Volume for PO.

Segment:	**L5** Description, Marks and Numbers	
Position:	190	
Loop:	0320 Mandatory	
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify the line item in terms of description, quantity, packaging, and marks and numbers	
Syntax Notes:		
Semantic Notes:		
Comments:	1 L502 may be used to send quantity information as part of the product description.	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	L501	213	**Lading Line Item Number**	M	N0 1/3
			Sequential line number for a lading item		
			Bill of Lading Line Number		
M	L502	79	**Lading Description**	M	AN 1/50
			Description of an item as required for rating and billing purposes		

Segment:	**L3** Total Weight and Charges	
Position:	010	
Loop:		
Level:	Summary	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items	
Syntax Notes:	**1** L301, L302, L311 AND L312 are required.	
Semantic Notes:	If either L309 or L310 is present, then the other is required.	
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	L301	81	**Weight**	M	R 1/10
			Numeric value of weight		
			Total Weight for Shipment.		
M	L302	187	**Weight Qualifier**	M	ID 1/2
			Code defining the type of weight		
			G Gross Weight		
	L309	183	**Volume**	X	R 1/8
			Value of volumetric measure		
			Total Volume		
	L310	184	**Volume Unit Qualifier**	X	ID 1/1
			Code identifying the volume unit		
			All valid standard codes are used.		
M	L311	80	**Lading Quantity**	M	N0 1/7
			Number of units (pieces) of the lading commodity		
M	L312	188	**Weight Unit Code**	M	ID 1/1
			Code specifying the weight unit		
			K Kilograms		
			L Pounds		

Segment:	**SE** Transaction Set Trailer		
Position:	020		
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)		
Syntax Notes:			
Semantic Notes:			
Comments:	**1**	SE is the last segment of each transaction set.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	SE01	96	**Number of Included Segments**	**M N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	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:	**GE** Functional Group Trailer	
Position:	030	
Loop:		
Level:	Summary	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the end of a functional group and to provide control information	
Syntax Notes:		
Semantic Notes:	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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	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	
M	GE02	28	**Group Control Number**	M N0 1/9
			Assigned number originated and maintained by the sender	

Segment:	**IEA** Interchange Control Trailer	
Position:	040	
Loop:		
Level:	Summary	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To define the end of an interchange of zero or more functional groups and interchange-related control segments	
Syntax Notes:		
Semantic Notes:		
Comments:		

Data Element Summary

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

997 Transaction Structure

Pos. No.	Seg. ID	Name	Max.Use	Loop Repeat
001	ISA	Interchange Control Header	1	
002	GS	Functional Group Header	1	
010	ST	Transaction Set Header	1	
020	AK1	Functional Group Response Header	1	
		LOOP ID - AK2		999999
030	AK2	Transaction Set Response Header	1	
		LOOP ID - AK3		999999
040	AK3	Data Segment Note	1	
050	AK4	Data Element Note	99	
060	AK5	Transaction Set Response Trailer	1	
070	AK9	Functional Group Response Trailer	1	
080	SE	Transaction Set Trailer	1	
090	GE	Functional Group Trailer	1	
100	IEA	Interchange Control Trailer	1	

NOTES:

A. 997 Functional Acknowledgments must be generated and sent within one hour of receipt of Load Tender (204).

B. 997 Functional Acknowledgments are required in response to all transactions received.

C. All 997 Functional Acknowledgments must report acknowledgments at the Transaction Set level.

ISA Interchange Control Header

Position:
Loop:
Level: Header
Usage: Mandatory
Max Use: 1
Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ISA01	**I01**	**Authorization Information Qualifier**	**ID 2/2**
		00 = No Authorization Information Present	
ISA02	**I02**	**Authorization Information**	**AN 10/10**
		Spaces	
ISA03	**I03**	**Security Information Qualifier**	**ID 2/2**
		00 = No Security Information Present	
ISA04	**I04**	**Security Information**	**AN 10/10**
		Spaces	
ISA05	**I05**	**Interchange ID Qualifier**	**ID 2/2**
		ZZ = Mutually Defined	
ISA06	**I06**	**Interchange Sender ID**	**AN 15/15**
		KBXTECH for test and production	
ISA 07	**I05**	**Interchange ID Qualifier**	**ID 2/2**
		Carrier Interchange ID Qualifier	
ISA08	**I07**	**Interchange Receiver ID**	**AN 15/15**
		Carrier Interchange ID	
ISA09	**I08**	**Interchange Date**	**DT 6/6**
		YYMMDD	
ISA10	**I09**	**Interchange Time**	**TM 4/4**
		HHMM	
ISA11	**I10**	**Interchange Control Standards Identifier**	**ID 1/1**
		U = U.S. EDI Community of ASC X12, TDCC, and UCS	
ISA12	**I11**	**Interchange Control Version Number**	**ID 5/5**
		00400	
ISA13	**I12**	**Interchange Control Number**	**N0 9/9**
ISA14	**I13**	**Acknowledgment Requested**	**ID 1/1**
		0 = No Acknowledgment Requested	
ISA15	**I14**	**Usage Indicator**	**ID 1/1**
		P= Production Data shows "Live" Environment in Orderful	
		T= Test Data shows "Test" Environment in Orderful NOTE: An indicator of T will not be passed into our "Live" environment.	
ISA16	**I15**	**Component Element Separator**	**1/1**
		>	

GS Functional Group Header

Position:	
Loop:	
Level:	Header
Usage:	Mandatory
Max Use:	1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GS01	**479**	**Functional Identifier Code**	**ID 2/2**
		FA=Functional Acknowledgment	
GS02	**142**	**Application Sender's Code**	**AN 2/15**
		KBXTECH for Test and Production	
GS03	**124**	**Application Receiver's Code**	**AN 2/15**
		Carrier Interchange ID	
GS04	**373**	**Group Date**	**DT 8/8**
		CCYYMMDD	
GS05	**337**	**Group Time**	**TM 4/8**
		HHMM	
GS06	**28**	**Group Control Number**	**NO 1/9**
GS07	**455**	**Responsible Agency Code**	**ID 1/2**
		X = Accredited Standards Committee X12	
GS08	**480**	**Version/Release/Industry ID Code**	**AN 1/12**
		004010	

ST Transaction Set Header

Position:	010
Loop:	
Level:	Header
Usage:	Mandatory
Max Use:	1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ST01	**143**	**Transaction Set Identifier Code**	**ID 3/3**
		997 Functional Acknowledgment	
ST02	**329**	**Transaction Set Control Number**	**AN 4/9**

AK1 Functional Group Response Header

Position: 020
Loop:
Level: Header
Usage: Mandatory
Max Use: 1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AK101	479	**Functional Identifier Code**	ID 2/2
		Functional identifier code from the functional group being acknowledged.	
AK102	28	**Group Control Number**	N0 1/9
		Control number obtained from GS06 in originating functional group being acknowledged.	

AK2 Transaction Set Response Header

Position: 030
Loop: AK2   Optional
Level: Header
Usage: Optional
Max Use: 1
Notes: Acknowledgment is required at the transaction level.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AK201	143	**Transaction Set Identifier Code**	ID 3/3
		Transaction set number from the transaction set being acknowledged.	

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AK202	**329**	**Transaction Set Control Number**	**AN 4/9**

Control number obtained from ST02 in originating transaction set being acknowledged.

AK3 Data Segment Note

Position:	040
Loop:	AK3 Optional
Level:	Header
Usage:	Optional
Max Use:	1
Notes:	Used only if a segment in a transaction set contains errors.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AK301	721	Segment ID Code	ID 2/3
		Segment ID of segment containing the error.	
AK302	719	Segment Position in Transaction Set	N0 1/6
		Relative position of segment in transaction set.	
AK304	720	Segment Syntax Error Code	ID 1/3
		Any 8 codes defined in table 720.	

AK4 Data Element Note

Position:	050
Loop:	AK3 Optional
Level:	Header
Usage:	Optional
Max Use:	99
Notes:	Used only if a segment in a transaction set contains errors.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AK401	C030	Position in Segment	
	C03001	722 Element Position in Segment	N0 1/2
		Relative position of erroneous data element within segment.	
AK403	723	Data Element Syntax Error Code	ID 1/3
		Any of the 10 codes defined in table 723.	

AK5 Transaction Set Response Trailer

Position: 060
Loop: AK2   Mandatory
Level:
Usage: Mandatory
Max Use: 1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AK501	**717**	**Transaction Set Acknowledgment Code**	**ID 1/1**
		Any code defined in table 717.	
AK502	**718**	**Transaction Set Syntax Error Code**	**ID 1/3**
		Any code defined in table 718.	

AK9 Functional Group Response Trailer

Position: 070
Loop:
Level:
Usage: Mandatory
Max Use: 1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AK901	**715**	**Functional Group Acknowledge Code**	**ID 1/1**
		Any code defined in table 715.	
AK902	**97**	**Number of Transaction Sets Included**	**N0 1/6**
AK903	**123**	**Number of Received Transaction Sets**	**N0 1/6**
AK904	**2**	**Number of Accepted Transaction Sets**	**N0 1/6**
AK905	**716**	**Functional Group Syntax Error Code**	**ID 1/3**
		Any code defined in table 716.	

SE Transaction Set Trailer

Position: 080
Loop:
Level:
Usage: Mandatory
Max Use: 1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	96	Number of Included Segments	N0 1/10
SE02	329	Transaction Set Control Number	AN 4/9

GE Functional Group Trailer

Position:
Loop:
Level:
Usage: Mandatory
Max Use: 1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	97	Number of Transaction Sets Included	N0 1/6
GE02	28	Group Control Number	N0 1/9

IEA Interchange Control Trailer

Position:
Loop:
Level:
Usage: Mandatory
Max Use: 1

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IEA01	I16	Number of Included Functional Groups	N0 1/5
IEA02	I12	Interchange Control Number	N0 9/9