



**Advantage Delivered**

**KBX Technology Solutions, LLC**  
**Electronic Data Interchange**

**ASC X12 4010 EDI Implementation Guidelines**  
**204 Motor Carrier Load Tender**  
**997 Functional Acknowledgment**



## KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

# 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

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

## Document Flow - Truckload Operations

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

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

<u>KBX Technology Solutions, LLC</u>		<u>Carrier</u>
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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

## 204 Motor Carrier Load Tender

Functional Group ID=**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		<b>N1</b>
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	<b>N2</b>
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		<b>N3</b>
31	040	AT8	Shipment Weight, Packaging and Quantity Data	M	1		<b>N4</b>
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		<b>N5</b>
36	090	N3	Address Information	M	2		
37	100	N4	Geographic Location	M	1		
38	120	G61	Equipment or Container Owner and	O	3		

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

Page No.	Pos No.	Seg ID	Name Type	Req. Des.	Max Use	Loop Repeat	Notes and Comments
			LOOP ID – 0350			999	<b>N6</b>
39	150	OID	Order Identification Detail	M	1		
			LOOP ID – 0360			99	<b>N7</b>
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.	Data Des.	Element	Name	Attributes
M	ISA01	I01	<b>Authorization Information Qualifier</b> 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
M	ISA02	I02	<b>Authorization Information</b> 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 AN 10/10
M	ISA03	I03	<b>Security Information Qualifier</b> 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
M	ISA04	I04	<b>Security Information</b> 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 AN 10/10
M	ISA05	I05	<b>Interchange ID Qualifier</b> 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 ID 2/2
M	ISA06	I06	<b>Interchange Sender ID</b> 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 AN 15/15
M	ISA07	I05	<b>Interchange ID Qualifier</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified ZZ Mutually Defined	M ID 2/2
M	ISA08	I07	<b>Interchange Receiver ID</b> 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 <b>KBXTECH for test and production</b>	M AN 15/15
M	ISA09	I08	<b>Interchange Date</b> Date of the interchange YYMMDD	M DT 6/6

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

M	ISA10	I09	<b>Interchange Time</b> Time of the interchange HHMM	M	TM 4/4
M	ISA11	I10	<b>Interchange Control Standards Identifier</b> 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	ID 1/1
M	ISA12	I11	<b>Interchange Control Version Number</b> 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	ID 5/5
M	ISA13	I12	<b>Interchange Control Number</b> A control number assigned by the interchange sender	M	N0 9/9
M	ISA14	I13	<b>Acknowledgment Requested</b> Code sent by the sender to request an interchange acknowledgment (TA1) <i>Note: This is an informational only field. The value sent in this element alone does not drive the generation of an acknowledgment 997.</i>	M	ID 1/1
M	ISA15	I14	<b>Usage Indicator</b> 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	ID 1/1
M	ISA16	I15	<b>Component Element Separator</b> Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator >	M	AN 1/1



# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	GS01	479	<b>Functional Identifier Code</b> Code identifying a group of application related transaction sets SM Transportation Load Tender Request Message (204)	M ID 2/2
M	GS02	142	<b>Application Sender's Code</b> Code identifying party sending transmission; codes agreed to by trading partners Carrier Application ID	M AN 2/15
M	GS03	124	<b>Application Receiver's Code</b> Code identifying party receiving transmission. Codes agreed to by trading partners <b>KBXTECH for test and production</b>	M AN 2/15
M	GS04	373	<b>Date</b> Date expressed as CCYYMMDD CCYYMMDD	M DT 8/8
M	GS05	337	<b>Time</b> 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 TM 4/8
M	GS06	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender	M N0 1/9
M	GS07	455	<b>Responsible Agency Code</b> Code used in conjunction with Data Element 480 to identify the issuer of the standard X Accredited Standards Committee X12	M ID 1/2
M	GS08	480	<b>Version / Release / Industry Identifier Code</b> 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	M AN 1/12

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 204 Motor Carrier Load Tender	M ID 3/3
M	ST02	329	<b>Transaction Set Control Number</b> 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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	B202	140	<b>Standard Carrier Alpha Code</b> Standard Carrier Alpha Code Assigned carrier SCAC Code	M ID 2/4
M	B204	145	<b>Shipment Identification Number</b> 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.	M AN 1/30
	B205	188	<b>Weight Unit Code</b> Code specifying the weight unit K Kilograms L Pounds	O ID 1/1
M	B206	146	<b>Shipment Method of Payment</b> Code identifying payment terms for transportation charges CC Collect PP Prepaid (by Seller) TP Third Party Pay	M ID 2/2

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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. The carrier is encouraged to respond with a 990 (Accept or Decline). No 990 is considered as an Acceptance of the Load Tender.

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.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	B2A01	353	<b>Transaction Set Purpose Code</b>	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
			01 Cancellation	
			04 Change	
	B2A02	346	<b>Application Type</b>	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.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	L1101	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
M	L1102	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification <i>References of significance and their meanings are below:</i> 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)	M ID 2/3

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

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

(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)

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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 Of 16 (Proposal).

## Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	G6201	432	<b>Date Qualifier</b> 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	M ID 2/2
M	G6202	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8
M	G6203	176	<b>Time Qualifier</b> 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	M ID 1/2
M	G6204	337	<b>Time</b> 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
M	G6205	623	<b>Time Code</b> Code identifying the time. LT Local Time	M ID 2/2

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	MS301	140 <b>Standard Carrier Alpha Code</b> Standard Carrier Alpha Code SCAC	M ID 2/4
M	MS302	133 <b>Routing Sequence Code</b> 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 1 <sup>st</sup> Carrier After Origin Carrier 2 2 <sup>nd</sup> Carrier After Origin Carrier 3 3 <sup>rd</sup> Carrier After Origin Carrier 4 4 <sup>th</sup> Carrier After Origin Carrier	M ID 1/2
M	MS304	91 <b>Transportation Method/Type Code</b> 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)	M ID 1/2

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
AT501	152	<b>Special Handling Code</b> Code specifying special transportation handling instructions TOF Trailer on Flat Car GSS Greater Security Service HZD Hazardous Cargo	X ID 2/3
AT502	560	<b>Special Services Code</b> Code identifying the special service	X ID 2/3
AT503	153	<b>Special Handling Description</b> 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	X ID 2/3



# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

## 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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<b>LH601</b>	<b>93</b>	<b>Name</b> Free-form name	<b>O AN 1/60</b>

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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:**

## Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N101	98	<b>Entity Identifier Code</b> 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 ID 2/3
M	N102	93	<b>Name</b> Free-form name	M AN 1/60

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
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	

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**Segment:** **G61 Contact**  
**Position:** 190  
**Loop:** 0100 Mandatory  
**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.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	G6101	366 <b>Contact Function Code</b>	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		IC Information Contact	
M	G6102	93 <b>Name</b>	M AN 1/60
		Free-form name	
	G6103	365 <b>Communication Number Qualifier</b>	X ID 2/2
		Code identifying the type of communication number	
		EM Electronic Mail (eMail)	
		FX Facsimile	
		TE Telephone	
	G6104	364 <b>Communication Number</b>	X AN 1/80
		Complete communications number including country or area code when applicable or complete eMail address.	

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N702	207	<b>Equipment Number</b> Sequencing or serial part of an equipment unit's identifying number. The element will be blank if the equipment number is not available.	M AN 1/10
M	N711	40	<b>Equipment Description Code</b> Code identifying type of equipment used for shipment	M ID 2/2
			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	
M	N715	567	<b>Equipment Length</b> 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	M N0 4/5



# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	L1101	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
M	L1102	128	<b>Reference Identification Qualifier</b> 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	M ID 2/3
			CO Customer order#	
			IL Internal order#	
			PO Purchase Order Number	
			SI Shippers identifying#	
			VN Vendor Order Number	

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Date Qualifier</u>	
M	G6201	432	M ID 2/2
		Code specifying type of date	
		<b>Pickup:</b>	
		37	Ship Not Before Date
		38	Ship Not Later Than Date
		CL	Date Loading Completed
		LC	Date Loading Commenced
		<b>Delivery:</b>	
		53	Deliver Not Before Date
		54	Deliver No Later Than Date
		68	Requested Delivery Date
		70	Scheduled Delivery Date
		78	Delivery Appointment Scheduled Date
M	G6202	373	M DT 8/8
		Date expressed as CCYYMMDD	
	G6203	176	X ID 1/2
		Code specifying the reported time	
		<b>Pickup:</b>	
		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
		<b>Delivery:</b>	
		3	Delivery Appointment Scheduled Time
		G	Earliest Requested Deliver Time
		L	Latest Requested Delivery Time
		X	Scheduled Delivery Time
		Z	Requested Delivery Time

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

ED                    Earliest Delivery Time  
LD                    Latest Delivery Time

<b>G6204</b>	<b>337</b>	<b>Time</b>	<b>X</b>	<b>TM 4/8</b>
		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)		
<b>G6205</b>	<b>623</b>	<b>Time Code</b>	<b>O</b>	<b>ID 2/2</b>
		Code identifying the time		
		LT		Local Time

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

- 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.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
AT801	187	<b>Weight Qualifier</b> Code defining the type of weight G Gross Weight	X ID 1/2
AT802	188	<b>Weight Unit Code</b> Code specifying the weight unit K Kilograms L Pounds	X ID 1/1
AT803	81	<b>Weight</b> Numeric value of weight Total Weight at stop off.	X R 1/10
AT804	80	<b>Lading Quantity</b> Number of units (pieces) of the lading commodity This is the number of non-unitized shipping units (e.g. cartons).	O N0 1/7
AT805	80	<b>Lading Quantity</b> 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).	O N0 1/7
AT806	184	<b>Volume Unit Qualifier</b> Code identifying the volume unit E Cubic Feet	X ID 1/1
AT807	183	<b>Volume</b> Value of volumetric measure	X R 1/8

**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**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
AT501	152	<b>Special Handling Code</b> Code specifying special transportation handling instructions	X ID 2/3
		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	
AT502	560	<b>Special Services Code</b> Code identifying the special service	X ID 2/10
		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	
AT503	153	<b>Special Handling Description</b> 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	X AN 2/30



# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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.  
**2** If 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.

### Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual SF Ship From ST Ship To	M ID 2/3
M	N102	93	<b>Name</b> Free-form name	M AN 1/60
M	N103	66	<b>Identification Code Qualifier</b> 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	M ID 1/2
M	N104	67	<b>Identification Code</b> Code identifying a party or other code Location code.	M AN 2/80

**KBX Technology Solutions, LLC Electronic Data Interchange**

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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**

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	N401	19 <b>City Name</b> Free-form text for city name	M AN 2/30
M	N402	156 <b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	M ID 2/2
M	N403	116 <b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks	M ID 3/15
	N404	26 <b>Country Code</b> Code identifying the country	X ID 2/3
		CA CANADA	
		CAN CANADA	
		MX MEXICO	
		MEX MEXICO	
		US UNITED STATES OF AMERICA	
		USA UNITED STATES OF AMERICA	

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**Segment:** **G61** Contact  
**Position:** 120  
**Loop:** 0310 Mandatory  
**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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	OID02	324 <b>Purchase Order Number</b>	M AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser	
M	OID04	355 <b>Unit or Basis for Measurement Code</b>	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		PC Piece	
M	OID05	380 <b>Quantity</b>	M R 1/15
		Numeric value of quantity	
		Total Quantity for PO.	
M	OID06	188 <b>Weight Unit Code</b>	M ID 1/1
		Code specifying the weight unit	
		K Kilograms	
		L Pounds	
M	OID07	81 <b>Weight</b>	M R 1/10
		Numeric value of weight	
		Total Weight for PO.	
M	OID08	184 <b>Volume Unit Qualifier</b>	M ID 1/1
		Code identifying the volume unit	
		E Cubic Feet	
		X Cubic Meters	
M	OID09	183 <b>Volume</b>	M R 1/8
		Value of volumetric measure	
		Total Volume for PO.	

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

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



# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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, L309, L310, L311 AND L312 are required.  
**Semantic Notes:**  
**Comments:**

## Data Element Summary

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	<b>Transaction Set Control Number</b> 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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

- 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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

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

# KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

## 997 Transaction Structure

---

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Max.Use</u>	<u>Loop Repeat</u>
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.	Data	Name	Attributes
Des.	Element		
ISA01	I01	<b>Authorization Information Qualifier</b> 00 = No Authorization Information Present	ID 2/2
ISA02	I02	<b>Authorization Information</b> Spaces	AN 10/10
ISA03	I03	<b>Security Information Qualifier</b> 00 = No Security Information Present	ID 2/2
ISA04	I04	<b>Security Information</b> Spaces	AN 10/10
ISA05	I05	<b>Interchange ID Qualifier</b> ZZ = Mutually Defined	ID 2/2
ISA06	I06	<b>Interchange Sender ID</b> KBXTECH for test and production	AN 15/15
ISA 07	I05	<b>Interchange ID Qualifier</b> Carrier Interchange ID Qualifier	ID 2/2
ISA08	I07	<b>Interchange Receiver ID</b> Carrier Interchange ID	AN 15/15
ISA09	I08	<b>Interchange Date</b> YYMMDD	DT 6/6
ISA10	I09	<b>Interchange Time</b> HHMM	TM 4/4
ISA11	I10	<b>Interchange Control Standards Identifier</b> U = U.S. EDI Community of ASC X12, TDCC, and UCS	ID 1/1
ISA12	I11	<b>Interchange Control Version Number</b> 00400	ID 5/5
ISA13	I12	<b>Interchange Control Number</b>	N0 9/9
ISA14	I13	<b>Acknowledgment Requested</b> 0 = No Acknowledgment Requested	ID 1/1
ISA15	I14	<b>Usage Indicator</b> 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.	ID 1/1
ISA16	I15	<b>Component Element Separator</b> >	1/1

## GS Functional Group Header

---

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

### Data Element Summary

<u>Attributes</u>	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	
	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

<u>Attributes</u>	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	
	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**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
AK101	479	<b>Functional Identifier Code</b>	<b>ID 2/2</b>
		Functional identifier code from the functional group being acknowledged.	
AK102	28	<b>Group Control Number</b>	<b>N0 1/9</b>
		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**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
AK201	143	<b>Transaction Set Identifier Code</b>	<b>ID 3/3</b>
		Transaction set number from the transaction set being acknowledged.	



**KBX Technology Solutions, LLC Electronic Data Interchange**

Transportation EDI Implementation Guidelines

ASC X12 4010 204: Motor Carrier Load Tender / 997 Functional Acknowledgement

**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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
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**

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

## **AK9 Functional Group Response Trailer**

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

### **Data Element Summary**

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

## **SE Transaction Set Trailer**

---

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

### **Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
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**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
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**

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