Advantage   Delivered

KBX Technology Solutions, LLC

Electronic Data Interchange

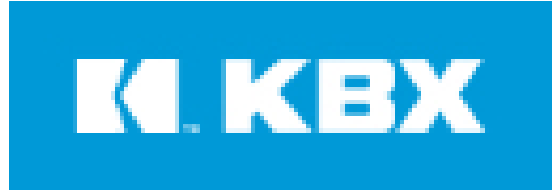## ASC X12 4010 EDI Implementation Guidelines

210 Freight Invoice

KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines
ASC X12 4010 210 Freight Invoice

Change Summary

Date	Action	Segment	Segment Description	Element	Description of Change
2/19/2021	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)
4/12/2021	Update	L7	Tariff Reference	L7_13 / L7_14 L7_01	Both L7_13 and L7_14 elements have been modified to show as mandatory. We require the distance and distance qualifier to be sent in on at least the first LX Loop's L7. L7_01 is also required.
4/28/2021	Update	L0	Weight and Weight Qualifier	L0_04 and L0_05	L0_04 and L0_05 have been added as Mandatory for the first LX Loop.
1/10/2023	Update	N9	Extended Reference	N901	Acceptable X12 codes have been added
1/20/2023	Update	N9	Extended Reference	N901	Acceptable X12 codes have been added

Freight Invoice Requirements

This document identifies all data elements KBX Technology Solutions, LLC would like our transportation carriers to provide when sending electronic Freight Invoices (210s). The KBX Technology Solutions EDI team handles KBX Logistics as well as Georgia Pacific, Flint Hills Resources and other Shipper/3PL EDI transactions.

Please notify the Orderful Help Desk if you do not wish to receive 997's for 210 Transactions.

Note to Carriers Migrating Freight Invoicing from GPTSPP or KBXL to KBXTECH:

- Contact information has changed from GP EDI to Orderful and KBX Technology Solutions
- GPTSPP, GPTPGP and KBXL 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 210s:*
  - *Shipment Identification Number in B3_03 is changed from Optional to Mandatory*
  - *C3_01 Currency is changed from Optional to Mandatory*
  - *Reference of 4F has been added as a valid N9 Reference at the header.*
  - *Transportation Method / Type Code R3_04 changed from Optional to Recommended.*
  - *Recommended use of header N1 segment to provide all 3 of Bill-to, Shipper and Consignee for internal tracking purposes along with their corresponding N3 and N4 segments.*
  - *Country code in N4_04 changed from Not Used to Used.*
  - *L0_04 and L0_05 added as mandatory segments within the first LX loop*
  - *L1_08 Special Charge or Allowance Code now allows for All valid standard codes to be sent and L1_01 and L1_08 have been changed from Optional to Mandatory.*
  - *Both L7_13 and L7_14 elements have been modified to show as mandatory. We require the distance and distance qualifier to be sent in on at least the first LX Loop's L7. L7_01 is also required.*
  - *Code sets have been expanded to allow additional values for the following segments:*

Element	Element Description	Code Set #	Level
B3_10	Date/Time Qualifier	374	Heading
N9_01	Reference Identification	182	Heading
R3_02	Routing Sequence Code	133	Heading
R3_04	Transportation Method/Type Code	91	Heading
N1_01	Entity Identifier Code	98	Heading
N7_11	Equipment Description Code	40	Heading
S5_04	Weight Unit Code	188	Detail
S5_06	Unit or Basis for Measurement Code	355	Detail
S5_08	Volume Unit Qualifier	184	Detail
L0_05	Weight Qualifier	187	Detail
L0_07	Volume Unit Qualifier	184	Detail
L0_09	Packaging Form Code	211	Detail
L0_11	Weight Unit Code	188	Detail
L1_08	Special Charge or Allowance Code	150	Detail
L7_14	Distance Qualifier	295	Detail
L3_02	Weight Qualifier	187	Detail
L3_10	Volume Unit Qualifier	184	Detail

- 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 to 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

KBX Technology Solutions, LLC Electronic Data Interchange
Transportation EDI Implementation Guidelines
ASC X12 4010 210 Freight Invoice

210 Motor Carrier Freight Details and Invoice

Functional Group=IM

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

Segments:

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

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	B3	Beginning Segment for Carrier's Invoice	M	1			Must use
040	C3	Currency	M	1			Used
060	N9	Reference Identification	O	300			Used
080	R3	Route Information - Motor	R	12			Used
090	H3	Special Handling Instructions	O	6			Used
LOOP ID - 0100					**10**		
110	N1	Name	M	1			Used
130	N3	Address Information	O	2			Used
140	N4	Geographic Location	O	1			Used
LOOP ID - 0200					**10**		
160	N7	Equipment Details	M	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - 0300					**999**		
010	S5	Stop Off Details	O	1		N2/010	Used
020	N9	Reference Identification	O	10			Used
LOOP ID - 0310					**2**		
050	N1	Name	O	1			Used
070	N3	Address Information	O	2			Used
080	N4	Geographic Location	O	1			Used
LOOP ID - 0400					**9999**		

120	LX	Assigned Number	M	1			Used
140	L5	Description, Marks and Numbers	M	30			Used
170	L0	Line Item - Quantity and Weight	O	10			Used
180	L1	Rate and Charges	M	10			Used
200	L7	Tariff Reference	M	10			Used
210	K1	Remarks	O	10			Used

Summary:

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

Segments:

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

Notes:

2/010   Loops 0300, 0305, 0310 and 0320 shall only be used to identify all stop-off locations and associated data for loading and unloading of freight with the exception of the original stop-off location (shipper) for truckload carriers. The original stop-off location (shipper) shall be transmitted in loop 0100.

KBX Technology Solutions, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines
ASC X12 4010 210 Freight Invoice

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

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 acknowledgment 997 for any 210 sent. Within Orderful's platform 997s can be turned on or off within the Trading Partner Relationships setting page.

| 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 our 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.		
	2	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	
			IM Motor Carrier Freight Details and Invoice (210, 980)	
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	

Code	Name
4010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.

3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST   Transaction Set Header

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

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

</div>

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

Element Summary:

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

Description: Code uniquely identifying a Transaction Set

Code	Name
210	Motor Carrier Freight Details and Invoice

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

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

Semantics:

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

B3 Beginning Segment for Carrier's Invoice

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

To transmit basic data relating to the carrier's invoice

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B302	**76**	**Invoice Number** **Description:** Identifying number assigned by issuer	**M**	**AN**	**1/22**	**Must use**
B303	**145**	**Shipment Identification Number** **Description:** Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters) **User Note 1:** Shipment id (SID) from the 204-B204. Must be exact.	**O**	**AN**	**1/30**	**Used**
B304	**146**	**Shipment Method of Payment** **Description:** Code identifying payment terms for transportation charges **Code** **Description** CC Collect PP Prepaid (by Seller)	**M**	**ID**	**2/2**	**Must use**
B305	188	Weight Unit Code Description: Code specifying the weight unit All valid standard codes are used.	O	ID	1/1	Not used
B306	**373**	**Date (Invoice Date)** **Description:** Date expressed as CCYYMMDD	**M**	**DT**	**8/8**	**Must use**
B307	**193**	**Net Amount Due** **Description:** Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified	**M**	**N2**	**1/12**	**Must use**
B308	202	Correction Indicator Description: Code used to indicate that the transaction set contains information which corrects previous information All valid standard codes are used.	O	ID	2/2	Not used
B309	**32**	**Delivery Date** **Description: Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD**	**C**	**DT**	**8/8**	**Used**

B310	374	**Date/Time Qualifier**	C	ID	3/3	Used

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

Code	Description
035	DELIVERED
001	CANCEL AFTER
002	DELIVERY REQUESTED
003	INVOICE
007	EFFECTIVE
010	REQUESTED SHIP
015	PROMOTION START
022	FREIGHT BILL
037	SHIP NOT BEFORE
038	SHIP NO LATER
063	DO NOT DELIVER AFTER
064	DO NOT DELIVER BEFORE
077	REQUESTED FOR DELIVERY (WEEK OF)
095	BILL OF LADING
097	TRANSACTION CREATION
140	ACTUAL
234	SETTLEMENT DATE

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

Description: Must match SCAC code sent on the 204 tender B2_02

B312	373	**Date (Shipped Date)**	O	DT	8/8	Used

Description: Date expressed as CCYYMMDD

Syntax:

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

Semantics:

1. B306 is the billing date.
2. On collect freight bills the data in B309 will be the actual delivery date. For the shipments invoiced prior to delivery, the B309 will be the estimated date of delivery.

C3   Currency

Pos: 040	**Max: 1**
Heading – Mandatory	
Loop: N/A	**Elements: 4**

To specify the currency being used in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
C301	**100**	**Currency Code** **Description:** Code (Standard ISO) for country in whose currency the charges are specified	**M**	**ID**	**3/3**	**Must use**
C302	**280**	**Exchange Rate** **Description:** Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	**O**	**R**	**4/10**	**Used**
C303	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	O	ID	3/3	Not used
C304	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	O	ID	3/3	Not used

Semantics:

1. C301 is the billing currency.
2. C303 is the payment currency.
3. C304 is the rated currency.

Comments:

1. Currency is implied by the code for the country in whose currency the monetary amounts are specified.

N9   Reference Identification

Pos: 060	**Max: 300**
Heading – Recommended	
Loop: N/A	**Elements: 2**

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification	M	ID	2/3	**Must use**

Code	Description
BM	**Only required if not sent on the B3**
PO	**Purchase Order Number**
23	**Client Number ***
11	**Account Number * Required if mode is LTL**
19	**Division Identifier ***
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 210 as it was sent. -Carriers who are not getting a 204 tender from KBXTECH will be instructed on the proper code to be used when sending an EDI 214 message.**
8	**CARRIER ASSIGNED PACKAGE ID NUMBER**
2l	**TRACKING NUMBER**
31	**DOCKET NUMBER**
5S	**PROCESSING AREA**
6A	**CONSIGNEE REFERENCE NUMBER**
8X	**TRANSACTION CATEGORY OR TYPE**
98	**CONTAINER/PACKAGING SPECIFICATION NUMBER**
AE	**AUTHORIZATION FOR EXPENSE (AFE) NUMBER**
AH	**AGREEMENT NUMBER**
AI	**ASSOCIATED INVOICES**
AN	**ASSOCIATED PURCHASE ORDERS**
AO	**APPOINTMENT NUMBER**
AU	**AUTHORIZATION TO MEET**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		COMPETITION NUMBER				
	AW	AIR WAYBILL NUMBER				
	BN	BOOKING NUMBER				
	C0	CANADIAN SOCIAL INSURANCE NUMBER				
	C7	CONTRACT LINE ITEM NUMBER				
	C8	CORRECTED CONTRACT NUMBER				
	CG	CONSIGNEES ORDER NUMBER				
	CK	CHECK NUMBER				
	CMN	TOUR NUMBER				
	CN	CARRIERS REFERENCE NUMBER (PRO/INVOICE)				
	CO	CUSTOMER ORDER NUMBER (3PL)				
	CR	CUSTOMER REFERENCE NUMBER				
	CT	CONTRACT NUMBER				
	D0	DATA RELIABILITY CODE				
	DH	TRIP MILES (NWNA)				
	DO	DELIVERY ORDER NUMBER				
	DP	DEPARTMENT NUMBER				
	EF	ELECTRONIC FUNDS TRANSFER ID NUMBER				
	ER	CONTAINER OR EQUIPMENT RECEIPT NUMBER				
	EQ	EQUIPMENT NUMBER				
	FR	FREIGHT BILL NUMBER				
	GT	GOODS AND SERVICE TAX REGISTRATION NUMBER				
	GY	EMPTY REPOSITIONING NUMBER				
	HD	DEPARTMENT OF TRANSPORTATION HAZARDOUS NUMBER				
	HE	HAZARDOUS EXEMPTION NUMBER				
	HN	HAZARDOUS CERTIFICATION NUMBER				
	HO	SHIPPERS HAZARDOUS NUMBER				
	I2	INTERSTATE COMMERCE COMMISSION (ICC) ACCOUNT NBR				
	IF	ISSUE NUMBER				

Ref	Id	Element Name	Req	Type	Min/Max	Usage
	IL	INTERAL ORDER ID				
	IN	CONSIGNEES INVOICE NUMBER				
	IT	INTERNAL CUSTOMER NUMBER				
	ITN	INTERNAL TRANSACTION NUMBER				
	IX	ITEM NUMBER				
	KK	DELIVERY REFERENCE				
	LO	LOAD PLANNING NUMBER				
	MA	SHIP NOTICE/MANIFEST NUMBER				
	MB	MASTER BILL OF LADING				
	MDN	HAZARDOUS WASTE MANIFEST DOCUMENT NUMBER				
	OI	ORIGINAL INVOICE NUMBER				
	OL	ORIGINAL SHIPPERS BILL OF LADING NUMBER				
	P1	PREVIOUS CONTRACT NUMBER				
	P7	PRODUCT LINE NUMBER				
	P8	PICKUP REFERENCE NUMBER				
	PB	PAYERS FINANCIAL INSTITUTION ACCOUNT NUMBER				
	PD	PROMOTIONAL DEAL NUMBER				
	PG	PRODUCT GROUP				
	PK	PACAKGING LIST NUMBER				
	PM	PART NUMBER				
	PO	PURCHASE ORDER NUMBER				
	PR	PRICE QUOTE NUMBER				
	OC	OCEAN CONTAINER				
	QN	STOP SEQUENCE NUMBER				
	R1	CURRENT REVISION NUMBER				
	R2	CANCELED REVISION NUMBER				
	R4	TARIFF SECTION NUMBER				
	R5	TARIFF PAGE NUMBER				
	R6	TARFIFF RULE NUMBER				
	RB	RATE CODE NUMBER				
	RS	RETURNABLE CONTAINER SERIAL				

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		NUMBER				
	RSN	RESERVATION NUMBER				
	RZ	RETURN GOODS AUTHORIZATION NUMBER				
	SI	SHIPPERS IDENTIFICATION NUMBER FOR SHIPMENT (SID)				
	SN	SEAL NUMBER				
	SO	SHIPPERS ORDER (INVOICE NUMBER)				
	ST	STORE NUMBER				
	SV	SERVICE CHARGE NUMBER				
	TG	TRANSPORTATION CONTROL NUMBER (TCN)				
	TK	TANK NUMBER				
	TN	TRANSACTION REFERENCE NUMBER				
	TQ	TRACER ACTION REQUEST NUMBER				
	TS	TARIFF NUMBER				
	TT	TERMINAL CODE				
	U0	CONSOLIDATORS RECEIPT NUMBER				
	VN	DELIVERY NUMBER/GP ORDER NUMBER				
	VO	VENDOR ORDER NUMBER/JOB NUMBER				
	VP	VENDOR PRODUCT NUMBER				
	VR	VENDOR ID NUMBER				
	WY	WAYBILL NUMBER				
	ZH	CARRIER ASSIGNED REFERENCE NUMBER				

* Special use- Only required when requested by KBX Technology Solutions, LLC or its freight payment affiliates.

N902	127	Reference Identification	M	AN	1/30	Must use
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

Syntax:

1.

Semantics:

1.

R3   Route Information - Motor

Pos: 080	**Max: 12**
Heading - Optional	
Loop: N/A	**Elements: 3**

To specify carrier and routing sequences and details

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R301	140	**Standard Carrier Alpha Code**	M	ID	2/4	Must use
		Description: Standard Carrier Alpha Code				
R302	133	**Routing Sequence Code**	M	ID	1/2	Must use
		Description: Code describing the relationship of a carrier to a specific shipment movement				

          Code   **Description**
           O   Origin Carrier (Air, Motor, or Ocean)
All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R304	91	**Transportation Method/Type Code**	R	ID	1/2	Used
		Description: Code specifying the method or type of transportation for the shipment				

          Code   **Description**
           M   Motor (Common Carrier)
           X   Intermodal (Piggyback)
All valid standard codes are used.

Syntax:

1.

Semantics:

1.

# H3	**Special Handling Instructions**	**Pos: 090** **Max: 6** **Heading - Optional** **Loop: N/A Elements: 1**

To specify special handling instructions in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
H301	**152**	**Special Handling Code**	**M**	**ID**	**2/3**	**Used**

Description: Code specifying special transportation handling instructions
All valid standard codes are used.

Syntax:

1.

N1		**Name**			**Pos: 110**	**Max: 3**	
					Heading – Mandatory		
					Loop: 0100	**Elements: 4**	

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

Element Summary:

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

Description: Code identifying an organizational entity, a physical location, property or an individual. All 3 are recommended

Code	Description
BT	Bill-to-Party (Required)
CN	Consignee (Recommended)
SH	Shipper (Recommended use)

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

Description: Free-form name

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

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

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

Description: Code identifying a party or other code

Syntax:

1. N103 P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

N3   Address Information

Pos: 130	Max: 2
Heading – Optional /	
Recommended	
Loop: 0100	**Elements: 2**

To specify the location of the named party

Element Summary:

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

N4   Geographic Location

	Pos: 140	Max: 1
	Heading – Optional /	
	Recommended	
	Loop: 0100	Elements: 4

To specify the geographic place of the named party

Element Summary:

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

Syntax:

1. If any of N401 or N402 are present, then all are required.

Comments:

1. A combination of either N401 through N404 are adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

N7   Equipment Details

<table>
<tr><td>Pos: 160</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: 0200</td><td>Elements: 24</td></tr>
</table>

To identify the equipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N701	206	**Equipment Initial** **Description:** Prefix or alphabetic part of an equipment unit's identifying number	O	AN	1/4	Used
N702	207	**Equipment Number** **Description:** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	M	AN	1/10	Must use
N711	40	**Equipment Description Code** **Description:** Code identifying type of equipment used for shipment	O	ID	2/2	Used

	Code	Description
	TL	Trailer (not otherwise specified) (Preferred)

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N715	567	**Equipment Length** **Description:** 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)	O	N0	4/5	Used

> **User Note 1:** *For 48' trailer use 4800, 53' trailer use 5300 & for a 57' trailer use 5700.*

Syntax:

1.

Semantics:

1.

Comments:

1. N701 is mandatory for rail transactions.

S5	**Stop Off Details**	Pos: 010 Max: 1
		Detail – Optional
		Loop: 0300 Elements: 8

To specify stop-off detail reference numbers and stop reason

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
S501	165	**Stop Sequence Number**	M	N0	1/3	Must use
		Description: Identifying number for the specific stop and the sequence in which the stop is to be performed				
S502	163	**Stop Reason Code**	M	ID	2/2	Must use
		Description: Code specifying the reason for the stop				

Code	Description
CL	Complete
CU	Complete Unload
PL	Part Load
PU	Part Unload

Ref	Id	Element Name	Req	Type	Min/Max	Usage
S503	81	**Weight**	C	R	1/10	Used
		Description: Numeric value of weight				
S504	188	**Weight Unit Code**	C	ID	1/1	Used
		Description: Code specifying the weight unit				

Code	Description
L	Pounds

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
S505	382	**Number of Units Shipped**	C	R	1/10	Used
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set				
S506	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

Code	Description
CA	Case

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
S507	183	**Volume**	C	R	1/8	Used
		Description: Value of volumetric measure				
S508	184	**Volume Unit Qualifier**	C	ID	1/1	Used
		Description: Code identifying the volume unit				

Code	Description
E	Cubic Feet

All valid standard codes are used.

Syntax:

1. S503 P0304 -- If either S503 or S504 are present, then the others are required.
2. S505 P0506 -- If either S505 or S506 are present, then the others are required.
3. S507 P0708 -- If either S507 or S508 are present, then the others are required.

Semantics:

1. S5 Loop is only used to provide Intermediate Customer Stop-off Detail

N9 Reference Identification

Pos: 020		**Max: 10**
	Detail - Optional	
Loop: 0300		**Elements: 2**

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

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

Description: Code qualifying the Reference Identification

Code	Description
PO	Purchase Order Number

All valid standard codes are used.

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

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

Syntax:

1. If any of N901 or N902 are present, then all are required.

Semantics:

1.

# N1 **Name**	**Pos: 050** **Max: 1** **Detail - Optional** **Loop: 0310** **Elements: 2**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	**98**	**Entity Identifier Code**	**M**	**ID**	**2/3**	**Must use**
		Description: Code identifying an organizational entity, a physical location, property or an individual				

	Code	Description
	IC	Intermediate Consignee

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	**93**	**Name**	**C**	**AN**	**1/60**	**Used**
		Description: Free-form name				

User Note 1: *Name of the customer for the stop-off.*

Syntax:

1. If any of N101 or N102 are present, then all are required.

Comments:

1.

N3   Address Information

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

Pos: 070   Max: 2
Detail - Optional
Loop: 0310   Elements: 2

</div>

To specify the location of the named party

Element Summary:

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

N4 Geographic Location

Pos: 080   **Max: 1**
Detail - Optional
Loop: 0310   **Elements: 3**

To specify the geographic place of the named party

Element Summary:

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

Syntax:

1.

Comments:

1. N403 is required only if city name (N401) is in the U.S., Mexico or Canada.

LX   Assigned Number

<table>
<tr><td>Pos: 120</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Mandatory</td></tr>
<tr><td>Loop: 0400</td><td>Elements: 1</td></tr>
</table>

To reference a line number in a transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LX01	554	**Assigned Number**	M	N0	1/6	**Must use**
		Description: Number assigned for differentiation within a transaction set				

L5 Description, Marks and Numbers

<table>
<tr><td>Pos: 140</td><td>Max: 30</td></tr>
<tr><td colspan="2">Detail - Mandatory</td></tr>
<tr><td>Loop: 0400</td><td>Elements: 2</td></tr>
</table>

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L501	213	**Lading Line Item Number**	M	N0	1/3	Used
		Description: Sequential line number for a lading item				
L502	79	**Lading Description**	M	AN	1/50	Used
		Description: Description of an item as required for rating and billing purposes				

Syntax:

1.

Comments:

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

			Pos: 170	Max: 10
L0	**Line Item - Quantity and Weight**		**Detail – Required**	
			Loop: 0400	Elements: 15

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L001	213	**Lading Line Item Number**	M	N0	1/3	Used
		Description: Sequential line number for a lading item				
L004	81	**Weight**	**M**	**R**	**1/10**	**Used**
		Description: Numeric value of weight				
L005	187	**Weight Qualifier**	**M**	**ID**	**½**	**Used**
		Description: Code defining the type of weight				

<table>
<tr><td colspan="2">Code</td><td>Description</td></tr>
<tr><td></td><td>B</td><td>Billed Weight (preferred)</td></tr>
</table>

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L006	183	**Volume**	**C**	**R**	**1/8**	**Used**
		Description: Value of volumetric measure				
L007	184	**Volume Unit Qualifier**	**C**	**ID**	**1/1**	**Used**
		Description: Code identifying the volume unit				

<table>
<tr><td>Code</td><td>Description</td></tr>
<tr><td>E</td><td>Cubic Feet (preferred)</td></tr>
</table>

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L008	80	**Lading Quantity**	**C**	**N0**	**1/7**	**Used**
		Description: Number of units (pieces) of the lading commodity				
L009	211	**Packaging Form Code**	**C**	**ID**	**3/3**	**Used**
		Description: Code for packaging form of the lading quantity				

<table>
<tr><td>Code</td><td>Description</td></tr>
<tr><td>CAS</td><td>Case (Preferred)</td></tr>
<tr><td>PCS</td><td>Pieces (Preferred)</td></tr>
</table>

All valid standard codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L011	188	**Weight Unit Code**	**C**	**ID**	**1/1**	**Used**
		Description: Code specifying the weight unit				

<table>
<tr><td>Code</td><td>Description</td></tr>
<tr><td>L</td><td>Pounds (Preferred)</td></tr>
</table>

All valid standard codes are used.

Syntax:

1. L004 P0405 -- If either L004 or L005 are present, then the others are required.
2. L006 P0607 -- If either L006 or L007 are present, then the others are required.
3. L008 P0809 -- If either L008 or L009 are present, then the others are required.
4. L011 C1104 -- If L011 is present, then L004 is required

Semantics:

1. L008 is the number of handling units of the line item tendered to the carrier.

Comments:

1. L0 Segment should always be sent with the initial Linehaul charge within the 1st LX loop. Subsequent LX loops do not require the L0.

L1   Rate and Charges

Pos: 180	Max: 10
Detail – Mandatory	
Loop: 0400	Elements: 21

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L101	**213**	**Lading Line Item Number**	**M**	N0	1/3	Used
		Description: Sequential line number for a lading item				
L102	**60**	**Freight Rate**	**C**	R	1/9	Used
		Description: Rate that applies to the specific commodity				
L103	**122**	**Rate/Value Qualifier**	**C**	ID	2/2	Used
		Description: Code qualifying how to extend charges or interpret value. All valid standard codes are used.				
L104	**58**	**Charge**	**C**	N2	1/12	Used
		Description: For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified				
L108	**150**	**Special Charge or Allowance Code**	**M**	ID	3/3	Used
		Description: Code identifying type of special charge or allowance. All valid standard codes are used.				
L112	**276**	**Special Charge Description**	**O**	AN	2/25	Used
		Description: Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150				

Syntax:

1. L102 P0203 -- If either L102 or L103 are present, then the others are required.
2.

Semantics:

1.

				Pos: 200	Max: 10

L7   Tariff Reference

Pos: 200	**Max: 10**
Detail – Mandatory	
Loop: 0400	**Elements: 16**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L701	**213**	**Lading Line Item Number**	**M**	**N0**	**1/3**	**Used**
		Description: Sequential line number for a lading item				
L702	**168**	**Tariff Agency Code**	**O**	**ID**	**1/4**	**Used**
		Description: Code defining the tariff bureau or tariff publishing agent that governs the rates applied to this shipment				
L704	**172**	**Tariff Section**	**O**	**AN**	**1/2**	**Used**
		Description: Number used as an extension of the basic tariff number to identify the rates published within specific sections of the tariff				
L713	**294**	**Tariff Distance**	**M**	**N0**	**1/5**	**Used**
		Description: Distance on which the rate for a shipment is based				

User Note 1: *This element will contain the total number of miles.*

L714	**295**	**Distance Qualifier**	**M**	**ID**	**1/1**	**Used**
		Description: Code identifying the distance unit				

Code	Description
M	Miles (Actual) (Preferred)
T	Tariff Miles
X	Maximum Miles

Semantics:

1. L7_13 and L7_14 are both mandatory for at least the first LX Loop's N7.

K1 Remarks

Pos: 210 Max: 10
Detail - Optional
Loop: 0400 Elements: 2

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
K101	61	**Free-Form Message** **Description:** Free-form information	M	AN	1/30	Must use
K102	61	**Free-Form Message** **Description:** Free-form information	O	AN	1/30	Used

			Pos: 010	Max: 1

L3   Total Weight and Charges

Pos: 010   **Max: 1**
Summary – Mandatory
Loop: N/A   **Elements: 15**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L301	**81**	**Weight**	**M**	**R**	**1/10**	**Used**
		Description: Numeric value of weight				
L302	**187**	**Weight Qualifier**	**M**	**ID**	**1/2**	**Used**
		Description: Code defining the type of weight				

        Code   **Description**
        B   Billed Weight (Preferred)
    All valid standard codes are used.

L309	**183**	**Volume**	**C**	**R**	**1/8**	**Used**
		Description: Value of volumetric measure				
L310	**184**	**Volume Unit Qualifier**	**C**	**ID**	**1/1**	**Used**
		Description: Code identifying the volume unit				

        Code   **Description**
        E   Cubic Feet (Preferred)
    All valid standard codes are used.

L311	**80**	**Lading Quantity**	**O**	**N0**	**1/7**	**Used**
		Description: Number of units (pieces) of the lading commodity				

Syntax:

1. L301 P0102 -- If either L301 or L302 are present, then the others are required.
2. L309 P0910 -- If either L309 or L310 are present, then the others are required.

Semantics:

1. L305 is the total charges.

SE Transaction Set Trailer

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

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments** **Description:** Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Comments:

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

GE   Functional Group Trailer

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

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	**Must use**
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	28	**Group Control Number**	M	N0	1/9	**Must use**
		Description: Assigned number originated and maintained by the sender				

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA   **Interchange Control Trailer**

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

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	**I16**	**Number of Included Functional Groups**	**M**	**N0**	**1/5**	**Must use**
		Description: A count of the number of functional groups included in an interchange				
IEA02	**I12**	**Interchange Control Number**	**M**	**N0**	**9/9**	**Must use**
		Description: A control number assigned by the interchange sender				