KBX LOGISTICS

KBX Logistics, LLC
Electronic Data Interchange

ASC X12 4010 EDI Implementation Guidelines
110 Air Freight Invoice

May 7, 2018

KBX Logistics, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines
ASC X12 4010 110: Air freight invoice

Change Summary

Date	Action	Segment	Segment Description	Element	Description of Change
03/28/2018	Create				
03/30/2020	Updated	B3	Pickup Date	B3-12	Updated to Mandatory
12/5/2022	Updated	L1	Special Charge or Allowance Code	L1-08	Updated to accept all valid standard codes
1/23/2023	Updated	N9	Extended Reference	N901	Added acceptable codes
1/23/2023	Updated	N9	Extended Reference		Updated segment condition
3/7/2023	Updated	N9	Extended Reference	N901	**US Customs Service (USCS) entry number**
9/19/2023	updated	N9	Extended Reference	N901	**Added acceptable code (Q1)**
12/04/2023	Updated	B3	Pickup Date	B3-12	Updated to Optional
12/04/2023	updated	L10	L1002 Qualifier add	L1002	**Added acceptable code (A)**

Electronic Commerce Help Desk - Contact List

Name	Group/Support Area	Phone	E-mail
EC Help Desk	Electronic Commerce Help Desk	(920) 438-2100	GRPEDIHelpdesk@gapac.com

This document identifies all data elements KBX Logistics, LLC would like our transportation vendors to provide when sending electronic air freight invoices (110's). The Georgia-Pacific EDI team handles KBX Logistics' EDI transactions, so you will see Georgia-Pacific referenced below which indicates both KBX Logistics and Georgia-Pacific requirements. Please contact EC Help Desk if you have any questions.

Please notify the EC Help Desk if you do not wish to receive 997's for 110 Transactions.

Transaction Example

ST*110*16200020~
B3**1111111111*NEU318699999*PP**20180327*27572**20180329*035*SCAC*20200420~
B3A*SS*1~
C3*USD*1~
N1*BT*Molex Incorporated*PI*8252~
N3*2222 Wellington Court~
N4*Lisle*IL*60532*US~
N1*SH*Molex ETC Business Unit*PI*8252~
N3*4650 - 62nd Avenue N.~
N4*Pinellas Park*FL*33781*US~
N1*CN*ANY CUSTOMER~
N3*1234 S STREET~
N4*LOVELAND*CO*805388958*US~
N9*PO*523299~
N9*11*41414141~
N9*23*5042~
N9*19*3319~
N9*AW*NEU99998704~
LX*1~
P1**20180327*011~
R1*SCAC**CHI*695*SIN~
POD*2018029*1024*Receiving~
L5*1*CONNECTORS~
L0*1*1*EA*182*G~
L10*182*B*K~
SL1*AC**3~
L1*1***10010****400****FREIGHT~
L1*1***1000****HHB****ORIGIN HANDING~
L1*1***16562****405****FUEL SURCHARGE~
L3*182*B***27572******1*K~
SE*31*16200020~

110 Air Freight Details and Invoice

Functional Group ID=IA

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Air Freight Details and Invoice Transaction Set (110) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide a customer with an air invoice for transportation and other charges related to shipments, including Original Invoices, Past Due Billings, Balance Due Bills and Revisions.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	B3	Beginning Segment for Carrier's Invoice	M	1		
	030	B3A	Invoice Type	O	1		
	050	C3	Currency	O	1		
			LOOP ID - N1			3	
	075	N1	Name	O	1		n1
	090	N3	Address Information	O	2		
	100	N4	Geographic Location	O	1		
	110	N9	Reference Identification	M	10		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LX			9999	
M	010	LX	Assigned Number	M	1		
	085	P1	Pick-up	O	1		
	090	R1	Route Information (Air)	O	1		
	100	POD	Proof of Delivery	O	1		
			LOOP ID - L5			4	
M	150	L5	Description, Marks and Numbers	M	1		
	160	L0	Line Item - Quantity and Weight	O	1		
	163	L4	Measurement	O	4		
	165	L10	Weight	O	4		
	167	SL1	Tariff Reference	O	1		
			LOOP ID - L1			30	
	175	L1	Rate and Charges	O	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	015	L3	Total Weight and Charges	M	1		
M	045	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The N1 Loop is used only to convey entity information relevant to the debtor or for a party other than the shipper or consignee.

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ISA   Interchange Control Header

Pos:	**Max: 1**
- Mandatory	
Loop: N/A	**Elements: 16**

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier** **Description:** Code to identify the type of information in the Authorization Information All valid standard codes are used.	M	ID	2/2	**Must use**
ISA02	I02	**Authorization Information** **Description:** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	**Must use**
ISA03	I03	**Security Information Qualifier** **Description:** Code to identify the type of information in the Security Information All valid standard codes are used.	M	ID	2/2	**Must use**
ISA04	I04	**Security Information** **Description:** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	**Must use**
ISA05	I05	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	**Must use**
ISA06	I06	**Interchange Sender ID** **Description:** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	**Must use**
ISA07	I05	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	**Must use**

	Code	Name
	ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA08	I07	**Interchange Receiver ID** **Description:** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M	AN	15/15	**Must use**

User Note 1:	*The Receiver ID for Georgia-Pacific is GPTSPP.*
	For Testing Purposes use Receiver ID of GPTSPT.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA09	I08	**Interchange Date** **Description:** Date of the interchange	M	DT	6/6	**Must use**
ISA10	I09	**Interchange Time** **Description:** Time of the interchange	M	TM	4/4	**Must use**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA11	**I10**	**Interchange Control Standards Identifier**	**M**	**ID**	**1/1**	**Must use**
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer				
		All valid standard codes are used.				
ISA12	**I11**	**Interchange Control Version Number**	**M**	**ID**	**5/5**	**Must use**
		Description: This version number covers the interchange control segments				
		All valid standard codes are used.				
ISA13	**I12**	**Interchange Control Number**	**M**	**N0**	**9/9**	**Must use**
		Description: A control number assigned by the interchange sender				
ISA14	**I13**	**Acknowledgment Requested**	**M**	**ID**	**1/1**	**Must use**
		Description: Code sent by the sender to request an interchange acknowledgment (TA1)				
		All valid standard codes are used.				
ISA15	**I14**	**Usage Indicator**	**M**	**ID**	**1/1**	**Must use**
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information				

Code	Name
P	Production Data
T	Test Data

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA16	**I15**	**Component Element Separator**	**M**		**1/1**	**Must use**
		Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator				

Pos:		**Max: 1**
	- Mandatory	
Loop: N/A		**Elements: 8**

GS   Functional Group Header

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	**Must use**
		Description: Code identifying a group of application related transaction sets				

Code	Name
IA	Air Freight Details and Invoice

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS02	142	**Application Sender's Code**	M	AN	2/15	**Must use**
		Description: Code identifying party sending transmission; codes agreed to by trading partners				
GS03	124	**Application Receiver's Code**	M	AN	2/15	**Must use**
		Description: Code identifying party receiving transmission. Codes agreed to by trading partners				

User Note 1: *The Application Receiver's ID for Georgia-Pacific is GPTSPP. For Testing Purposes use Receiver ID of GPTSPT.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS04	373	**Date**	M	DT	8/8	**Must use**
		Description: Date expressed as CCYYMMDD				
GS05	337	**Time**	M	TM	4/8	**Must use**
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
GS06	28	**Group Control Number**	M	N0	1/9	**Must use**
		Description: Assigned number originated and maintained by the sender				
GS07	455	**Responsible Agency Code**	M	ID	1/2	**Must use**
		Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard				

Code	Name
X	Accredited Standards Committee X12

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	**Must use**
		Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed				

Code	Name

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Ref	Id	Element Name	Req	Type	Min/Max	Usage
	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.

Segment:		ST **Transaction Set Header**		
Position:		010		
Loop:				
Level:		Heading		
Usage:		Mandatory		
Max Use:		1		
Purpose:		To indicate the start of a transaction set and to assign a control number		
Syntax Notes:				
Semantic Notes:		**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., 810 selects the Invoice Transaction Set).	
Comments:				

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code**	**M ID 3/3**
			Code uniquely identifying a Transaction Set	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	**ST02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

	Segment:	**B3** Beginning Segment for Carrier's Invoice

Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To transmit basic data relating to the carrier's invoice
Syntax Notes:	**1** If either B309 or B310 is present, then the other is required.
Semantic Notes:	**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.
	3 If B314 is used, B304 will indicate the party or parties responsible for payment of the transportation terms identified in B314.
	4 B312 is actual Pickup Date
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	B302	76	**Invoice Number**	M	AN 1/22
			Identifying number assigned by issuer		
	B303	145	**Shipment Identification Number**	O	AN 1/30
			Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters) Shipment id (SID). Must be exact.		
M	B304	146	**Shipment Method of Payment**	M	ID 2/2
			Code identifying payment terms for transportation charges		
			CC Collect		
			PP Prepaid (by Seller)		
			TP Third Party Pay		
M	B306	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		
M	B307	193	**Net Amount Due**	M	N2 1/12
			Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified		
	B309	32	**Delivery Date**	X	DT 8/8
			Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD		
	B310	374	**Date/Time Qualifier**	X	ID 3/3
			Code specifying type of date or time, or both date and time		
			035 Delivered		
M	B311	140	**Standard Carrier Alpha Code**	M	ID 2/4
			Assigned SCAC code.		
	B312	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		
	B313	375	**Tariff Service Code**	O	ID 2/2
			Code specifying the types of services for rating purposes		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
	B314	335	**Transportation Terms Code**	O	ID 3/3

Code identifying the trade terms which apply to the shipment transportation
responsibility
Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**B3A** Invoice Type		
Position:	030		
Loop:			
Level:	Heading		
Usage:	Optional		
Max Use:	1		
Purpose:	To indicate type of invoice and number of shipments		
Syntax Notes:			
Semantic Notes:			
Comments:	1	B3A02 is the number of shipments invoiced.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**B3A01**	**640**	**Transaction Type Code**	**M**	**ID 2/2**
			Code specifying the type of transaction		
			SS Single Shipper, Single Consignee		
	B3A02	**21**	**Number of Shipments**	**O**	**N0 1/5**
			Total number of shipments on this transaction		

Segment:		$\mathbf{C3}$ Currency	
Position:	050		
Loop:			
Level:	Heading		
Usage:	Optional		
Max Use:	1		
Purpose:	To specify the currency being used in the transaction set		
Syntax Notes:			
Semantic Notes:	**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.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	C301	100	Currency Code	M	ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified		
	C302	280	Exchange Rate	O	R 4/10
			Value to be used as a multiplier conversion factor to convert monetary value from one currency to another		

Segment:	$N1$ **Name**		
Position:	075		
Loop:	N1	Optional	
Level:	Heading		
Usage:	Optional		
Max Use:	1		
Purpose:	To identify a party by type of organization, name, and code		
Syntax Notes:	**1**	At least one of N102 or N103 is required.	
	2	If either N103 or N104 is present, then the other is required.	
Semantic Notes:			
Comments:	**1**	This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.	
	2	N105 and N106 further define the type of entity in N101.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			BT	Bill-to-Party	
			CN	Consignee	
			SH	Shipper	
	N102	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
	N103	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
	N104	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		

	Segment:	**N3** Address Information
	Position:	090
	Loop:	N1 Optional
	Level:	Heading
	Usage:	Optional
	Max Use:	2
	Purpose:	To specify the location of the named party
	Syntax Notes:	
	Semantic Notes:	
	Comments:	

Data Element Summary

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

Segment:	**N4** Geographic Location	
Position:	100	
Loop:	N1	Optional
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify the geographic place of the named party	
Syntax Notes:	1	If N406 is present, then N405 is required.
Semantic Notes:		
Comments:	1	A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
	2	N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

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

Segment:	**N9** Reference Identification				
Position:	110				
Loop:	N9				
Level:	Heading				
Usage:	Mandatory				
Max Use:	10				
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier				
Syntax Notes:	1	At least one of N902 or N903 is required.			
	2	If N906 is present, then N905 is required.			
	3	If either C04003 or C04004 is present, then the other is required.			
	4	If either C04005 or C04006 is present, then the other is required.			
Semantic Notes:	1	N906 reflects the time zone which the time reflects.			
	2	N907 contains data relating to the value cited in N902.			
Comments:					

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N901	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

Code	Description
BM	Bill of Lading Number
PO	Purchase Order Number
23	Client Number *
11	Account Number * Required if mode is LTL
19	Division Identifier *
6B	US Customs Service (USCS) entry number
8	CARRIER ASSIGNED PACKAGE ID NUMBER
2l	TRACKING NUMBER
31	DOCKET NUMBER
5S	PROCESSING AREA
6A	CONSIGNEE REFERENCE NUMBER
8X	FULL CONTAINER LOAD (FCL) LESS THAN CONTAINER LOAD (LCL)
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 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
I5	INVOICE IDENTIFICATION
IF	ISSUE NUMBER
IK	INVOICE NUMBER
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 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**
Q1	**QUOTE NUMBER**

11   Account Number

N902	**127**	**Reference Identification**	**X**	**AN 1/30**

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

	Segment:	**LX** Assigned Number
	Position:	010
	Loop:	LX Mandatory
	Level:	Detail
	Usage:	Mandatory
	Max Use:	1
	Purpose:	To reference a line number in a transaction set
	Syntax Notes:	
	Semantic Notes:	
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	LX01	554	**Assigned Number**	M N0 1/6
			Number assigned for differentiation within a transaction set	

Segment:	**P1** Pick-up	
Position:	085	
Loop:	LX	Mandatory
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify the pick-up details including time, date, and equipment	
Syntax Notes:		
Semantic Notes:	**1**	P107 is the number of shipments tendered.
Comments:	**1**	P103 is the pick-up date qualifier.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	P102	109	**Pick-up Date**	M	DT 8/8
			Date the carrier picks up the shipment from the shipper or supplier expressed in format CCYYMMDD		
M	P103	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			011 Shipped		
	P104	111	**Pick-up Time**	O	TM 4/4
			Time (HHMM) that the carrier is to pick up the shipment		

	Segment:	**R1** Route Information (Air)
	Position:	090
	Loop:	LX Mandatory
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify airline and airport routing sequences
	Syntax Notes:	**1** If either R106 or R107 is present, then the other is required.
		2 If either R108 or R109 is present, then the other is required.
		3 If either R110 or R111 is present, then the other is required.
		4 If either R112 or R113 is present, then the other is required.
	Semantic Notes:	
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	R101	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
			Standard Carrier Alpha Code		
M	**R103**	**5**	**Airport Code**	**M**	**ID 3/5**
			Code (IATA) for airport		
M	**R104**	**4**	**Air Carrier Code**	**M**	**ID 3/3**
			Code (IATA) for the air carrier		
M	**R105**	**5**	**Airport Code**	**M**	**ID 3/5**
			Code (IATA) for airport		

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Segment:	**POD** Proof of Delivery			
Position:	100			
Loop:	LX	Mandatory		
Level:	Detail			
Usage:	Optional			
Max Use:	1			
Purpose:	To provide proof of delivery			
Syntax Notes:				
Semantic Notes:				
Comments:				

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	POD01	373	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
	POD02	337	**Time**	**O**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
M	POD03	93	**Name**	**M**	**AN 1/60**
			Free-form name		

Segment:	**L5** Description, Marks and Numbers	
Position:	150	
Loop:	L5 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:	1	If either L503 or L504 is present, then the other is required.
	2	If L507 is present, then L506 is required.
	3	If either L508 or L509 is present, then the other is required.
Semantic Notes:		
Comments:	1	L502 may be used to send quantity information as part of the product description.

Data Element Summary

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

Segment:	**L0** Line Item - Quantity and Weight	
Position:	160	
Loop:	L5	Mandatory
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data	
Syntax Notes:	**1**	If either L002 or L003 is present, then the other is required.
	2	If either L004 or L005 is present, then the other is required.
	3	If either L006 or L007 is present, then the other is required.
	4	If either L008 or L009 is present, then the other is required.
	5	If L011 is present, then L004 is required.
	6	If either L013 or L015 is present, then the other is required.
Semantic Notes:	**1**	L008 is the number of handling units of the line item tendered to the carrier.
	2	L013 can only be used if the code in L009 is PLT, SKD, or SLP.
	3	L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.
Comments:	**1**	L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
L001	**213**	**Lading Line Item Number**	**O** **N0 1/3**
		Sequential line number for a lading item	
L002	**220**	**Billed/Rated-as Quantity**	**X** **R 1/11**
		Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81	
L003	**221**	**Billed/Rated-as Qualifier**	**X** **ID 2/2**
		Code identifying the type of quantity or value on which the rate or item pricing is based Refer to 004010 Data Element Dictionary for acceptable code values.	
L004	**81**	**Weight**	**X** **R 1/10**
		Numeric value of weight	
L005	**187**	**Weight Qualifier**	**X** **ID 1/2**
		Code defining the type of weight Refer to 004010 Data Element Dictionary for acceptable code values.	
L006	**183**	**Volume**	**X** **R 1/8**
		Value of volumetric measure	
L007	**184**	**Volume Unit Qualifier**	**X** **ID 1/1**
		Code identifying the volume unit Refer to 004010 Data Element Dictionary for acceptable code values.	
L008	**80**	**Lading Quantity**	**X** **N0 1/7**
		Number of units (pieces) of the lading commodity	
L009	**211**	**Packaging Form Code**	**X** **ID 3/3**
		Code for packaging form of the lading quantity Refer to 004010 Data Element Dictionary for acceptable code values.	
L011	**188**	**Weight Unit Code**	**O** **ID 1/1**
		Code specifying the weight unit	

      K   Kilograms

      L   Pounds

Segment:	**L4** Measurement		
Position:	163		
Loop:	L5	Mandatory	
Level:	Detail		
Usage:	Optional		
Max Use:	4		
Purpose:	To describe physical dimensions and quantities		
Syntax Notes:			
Semantic Notes:	1	L406 is the Rounding in Pattern for dimensional shipments.	
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	L401	82	**Length**	M	R 1/8
			Largest horizontal dimension of an object measured when the object is in the upright position		
M	L402	189	**Width**	M	R 1/8
			Shorter measurement of the two horizontal dimensions measured with the object in the upright position		
M	L403	65	**Height**	M	R 1/8
			Vertical dimension of an object measured when the object is in the upright position		
M	L404	90	**Measurement Unit Qualifier**	M	ID 1/1
			Code specifying the linear dimensional unit		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment:		**L10** Weight			
Position:		165			
Loop:		L5 Mandatory			
Level:		Detail			
Usage:		Optional			
Max Use:		4			
Purpose:		To transmit weight information			
Syntax Notes:					
Semantic Notes:					
Comments:					

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	L1001	81	**Weight**		M	R 1/10
			Numeric value of weight			
M	L1002	187	**Weight Qualifier**		M	ID 1/2
			Code defining the type of weight			
			A1	Dimensional Weight		
			B	Billed Weight		
			N	Actual Net Weight		
			A	Consolidated Weight		
	L1003	188	**Weight Unit Code**		O	ID 1/1
			Code specifying the weight unit			
			K	Kilograms		
			L	Pounds		

Segment:	SL1 **Tariff Reference**		
Position:	167		
Loop:	L5	Mandatory	
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To reference details of the tariff used to arrive at applicable rates or charges for customer-requested service		
Syntax Notes:	1	At least one of SL103 or SL104 is required.	
Semantic Notes:	1	SL101 is the service requested by the customer.	
	2	SL105 is the effective date.	
	3	SL106 is the service provided by the carrier.	
Comments:	1	Scale and commodity codes are proprietary codes maintained by the carrier.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	SL101	284	Service Level Code	M	ID 2/2
			Code indicating the level of transportation service or the billing service offered by the transportation carrier		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
	SL103	22	Commodity Code	X	AN 1/30
			Code describing a commodity or group of commodities		
	SL104	320	Scale	X	AN 1/10
			A carrier-maintained reference used to further identify a schedule of rates within a tariff		

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Segment:	**L1** Rate and Charges	
Position:	175	
Loop:	L1 Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements	
Syntax Notes:	1	If either L102 or L103 is present, then the other is required.
	2	At least one of L104 L105 or L106 is required.
	3	If either L114 or L115 is present, then the other is required.
	4	If either L117 or L118 is present, then the other is required.
Semantic Notes:	1	L119 is the percent used to determine the charge in L104.
	2	L120, if used, indicates the currency for all monetary amounts in this L1 segment.
	3	L121 is the origin rated as charge amount.
Comments:		

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
L101	**213**	**Lading Line Item Number**	**O**	**N0 1/3**
		Sequential line number for a lading item		
L102	**60**	**Freight Rate**	**X**	**R 1/9**
		Rate that applies to the specific commodity		
L103	**122**	**Rate/Value Qualifier**	**X**	**ID 2/2**
		Code qualifying how to extend charges or interpret value		
		Refer to 004010 Data Element Dictionary for acceptable code values.		
L104	**58**	**Charge**	**X**	**N2 1/12**
		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**	**O**	**ID 3/3**
		Code identifying type of special charge or allowance		
		All valid standard codes are used.		
L112	**276**	**Special Charge Description**	**O**	**AN 2/25**
		Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150		
L117	**220**	**Billed/Rated-as Quantity**	**X**	**R 1/11**
		Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81		
L118	**221**	**Billed/Rated-as Qualifier**	**X**	**ID 2/2**
		Code identifying the type of quantity or value on which the rate or item pricing is based		
		Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment:	$L3$ **Total Weight and Charges**	
Position:	015	
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**	If either L301 or L302 is present, then the other is required.
	2	If either L303 or L304 is present, then the other is required.
	3	If either L309 or L310 is present, then the other is required.
	4	If L312 is present, then L301 is required.
	5	If either L314 or L315 is present, then the other is required.
Semantic Notes:	**1**	L305 is the total charges.
Comments:		

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
L301	81	**Weight**	**X**	**R 1/10**
		Numeric value of weight		
L302	187	**Weight Qualifier**	**X**	**ID 1/2**
		Code defining the type of weight		
		Refer to 004010 Data Element Dictionary for acceptable code values.		
L305	58	**Charge**	**O**	**N2 1/12**
		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		
L311	80	**Lading Quantity**	**O**	**N0 1/7**
		Number of units (pieces) of the lading commodity		
L312	188	**Weight Unit Code**	**O**	**ID 1/1**
		Code specifying the weight unit		

K	Kilograms
L	Pounds

Segment:	**SE** Transaction Set Trailer	
Position:	045	
Loop:		
Level:	Summary	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)	
Syntax Notes:		
Semantic Notes:		
Comments:	1	SE is the last segment of each transaction set.

Data Element Summary

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

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** **Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	**Must use**
GE02	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	**Must use**

Semantics:

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

Comments:

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

IEA Interchange Control Trailer

Pos:	**Max: 1**
- 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				