

KBX Logistics, LLC Electronic Data Interchange

Transportation EDI Implementation Guidelines

ASC X12 4010 110: Air freight invoice



**KBX Logistics, LLC
Electronic Data Interchange**

**ASC X12 4010 EDI Implementation Guidelines
110 Air Freight Invoice**

May 7, 2018

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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

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Electronic Commerce Help Desk - Contact List

<u>Name</u>	<u>Group/Support Area</u>	<u>Phone</u>	<u>E-mail</u>
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.

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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****HNB****ORIGIN HANDING~
L1*1***16562****405****FUEL SURCHARGE~
L3*182*B***27572*****1*K~
SE*31*16200020~

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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:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
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	O	10		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
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:

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

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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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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
		<u>Code</u> <u>Name</u> ZZ Mutually Defined				
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 User Note 1: <i>The Receiver ID for Georgia-Pacific is GPTSPP. For Testing Purposes use Receiver ID of GPTSPT.</i>	M	AN	15/15	Must use
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use						
ISA11	I10	Interchange Control Standards Identifier 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.	M	ID	1/1	Must use						
ISA12	I11	Interchange Control Version Number Description: This version number covers the interchange control segments All valid standard codes are used.	M	ID	5/5	Must use						
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use						
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.	M	ID	1/1	Must use						
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information	M	ID	1/1	Must use						
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Production Data</td> </tr> <tr> <td>T</td> <td>Test Data</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	P	Production Data	T	Test Data				
<u>Code</u>	<u>Name</u>											
P	Production Data											
T	Test Data											
ISA16	I15	Component Element Separator 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	M		1/1	Must use						

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GS

Functional Group Header

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

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>IA</td> <td>Air Freight Details and Invoice</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	IA	Air Freight Details and Invoice				
<u>Code</u>	<u>Name</u>									
IA	Air Freight Details and Invoice									
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use				
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners User Note 1: <i>The Application Receiver's ID for Georgia-Pacific is GPTSPP. For Testing Purposes use Receiver ID of GPTSPT.</i>	M	AN	2/15	Must use				
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use				
GS05	337	Time 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)	M	TM	4/8	Must use				
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use				
GS07	455	Responsible Agency Code Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard	M	ID	1/2	Must use				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>Accredited Standards Committee X12</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	X	Accredited Standards Committee X12				
<u>Code</u>	<u>Name</u>									
X	Accredited Standards Committee X12									
GS08	480	Version / Release / Industry Identifier Code 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	M	AN	1/12	Must use				

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed				

<u>Code</u>	<u>Name</u>
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.

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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

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

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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

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

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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.

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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

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

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

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

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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

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

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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

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

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Segment: **N9 Reference Identification**

Position: 110

Loop: N1 Optional

Level: Heading

Usage: Optional

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommunications industry account	
			19 Division Identifier (mandatory if specifically stated by EDI coordinator)	
			23 Client Number (mandatory if specifically stated by EDI coordinator)	
			2I Tracking Number	
			AW Air Waybill Number	
			CR Customer Reference Number	
			I5 Invoice Identification	
			IK Invoice Number	
			Manufacturer's invoice number for vehicle/component	
			PO Purchase Order Number	
			ST Store Number	
			VX Value-Added Tax Registration Number (Europe)	
	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	

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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

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

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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

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

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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

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

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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

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

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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

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

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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

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

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L

Pounds

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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

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

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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

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

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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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
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	
		045 Advance Fee	
		315 Duty Charge	
		340 Excise Tax - Origin	
		400 Freight	
		405 Fuel Surcharge	
		450 Inland Transportation	
		725 Telephone - Origin	
		750 Value Added Tax (VAT)	
		BRG Aqua Train	
		DEA Demurrage - Average Agreement	
		DER Derrick Charge	
		HHB Handling	
		MRK Marking or Tagging Charge	
		PER Permit Charge	
		PLT Pallets/Skids/Platforms	
		Provides for the exclusion of pallet weight from shipment	
		weight not to exceed a stated percentage of total shipment	
		weight	

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PRK	Parking
	Charge incurred for parking a vehicle
STF	Container Stuffing
TAH	Tool Charge
TRU	Thruway Charge

- | | | | |
|-------------|------------|---|------------------|
| 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. | |

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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

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

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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

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

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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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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.

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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:

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