



SCHENKER

110

Air Freight Invoice Implementation Guide

EDI Standard ANSI X.12 4010

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Version 1.01



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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, current support is only for Original Invoices.

**Segments Used**

	<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>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	015	B3	Beginning Segment for Carrier's Invoice	O	1		
Must Use	030	B3A	Invoice Type	O	1		
Not Used	045	C2	Bank ID	O	1		
Not Used	050	C3	Currency	O	1		
Not Used	065	ITD	Terms of Sale/Deferred Terms of Sale	O	1		
LOOP ID - N1						3	
Must Use	075	N1	Name	O	1		n1
Must Use	080	N2	Additional Name Information	O	1		
Must Use	090	N3	Address Information	O	2		
Must Use	100	N4	Geographic Location	O	1		
Must Use	110	N9	Reference Identification	O	10		
Not Used	120	PER	Administrative Communications Contact	O	1		

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	
Must Use	010	LX	Assigned Number	M	1		
LOOP ID - N1						2	
Not Used	020	N1	Name	O	1		n2
Not Used	030	N2	Additional Name Information	O	1		
Not Used	040	N3	Address Information	O	2		
Not Used	050	N4	Geographic Location	O	1		
Not Used	060	N9	Reference Identification	O	10		
Not Used	070	PER	Administrative Communications Contact	O	1		
Must Use	085	P1	Pick-up	O	1		
Must Use	090	R1	Route Information (Air)	O	1		
Must Use	100	POD	Proof of Delivery	O	1		
Not Used	110	V9	Event Detail	O	1		
Not Used	125	RMT	Remittance Advice	O	10		
Not Used	130	G47	Statement Identification	O	1		
Not Used	140	NTE	Note/Special Instruction	O	10		
LOOP ID - L5						4	
Must Use	150	L5	Description, Marks and Numbers	M	1		
Must Use	155	L0	Line Item - Quantity and Weight	O	1		
Must Use	163	L4	Measurement	O	4		
Must Use	165	L10	Weight	O	4		
Must Use	167	SL1	Tariff Reference	O	1		
LOOP ID - L1						30	
Must Use	176	L1	Rate and Charges	O	1		



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Not Used	180	C3	Currency	O	1	
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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>
Must Use	005	L3	Total Weight and Charges	O	1		
Not Used	020	ACS	Ancillary Charges	O	1		
Must Use	035	NTE	Note/Special Instruction	O	5		
Must Use	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.
2. The N1 loop is used to convey entity information relevant to the shipper and consignee.



Envelope Segments

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) 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.	Data	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Always "110"	M ID 3/3
>>	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



Header Segments

Segment: **B3** Beginning Segment for Carrier's Invoice
Position: 015
Loop:
Level: Heading:
Usage: Optional (Must Use)
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.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
X	B301	147	Shipment Qualifier Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
>>	B302	76	Invoice Number Identifying number assigned by issuer	X AN 1/22
>>	B303	145	Shipment Identification Number 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)	O AN 1/30
>>	B304	146	Shipment Method of Payment Code identifying payment terms for transportation charges CC Collect PP Prepaid (by Seller) TP Third Party Pay	M ID 2/2
>>	B305	188	Weight Unit Code Code specifying the weight unit K Kilograms L Pounds	O ID 1/1
>>	B306	373	Date Date expressed as CCYYMMDD	M DT 8/8
>>	B307	193	Net Amount Due 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
X	B308	202	Correction Indicator Code used to indicate that the transaction set contains information which corrects previous information	O ID 2/2

**Not Used **



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			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	B309	32	Delivery Date	X	DT 8/8
			Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD		
X	B310	374	Date/Time Qualifier	X	ID 3/3
			Code specifying type of date or time, or both date and time		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
>>	B311	140	Standard Carrier Alpha Code SIFF - Schenker SCAC code	X	ID 2/4
X	B312	373	Date	O	DT 8/8
Not Used			Date expressed as CCYYMMDD		
X	B313	375	Tariff Service Code	O	ID 2/2
Not Used			Code specifying the types of services for rating purposes		
Not Used			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	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 (Must Use)
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
>>	B3A01	640	Transaction Type Code Code specifying the type of transaction SS Single Shipper, Single Consignee	M ID 2/2
>>	B3A02	21	Number of Shipments Total number of shipments on this transaction Always "1"	O NO 1/5



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Segment: **N1** Name
Position: 075
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional (Must Use)
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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party CN Consignee SH Shipper	M ID 2/3
>>	N102	93	Name Free-form name	X AN 1/60
X	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
X	N104	67	Identification Code Code identifying a party or other code	X AN 2/80
X	N105	706	Entity Relationship Code Code describing entity relationship Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3



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Segment: **N2** Additional Name Information
Position: 080
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify additional names or those longer than 35 characters in length

Syntax Notes:

Semantic Notes:

Comments:

Notes: Used if a Second Name line is provided

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N201	93	Name Free-form name	M AN 1/60
X	N202	93	Name Free-form name	O AN 1/60



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

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	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 (Must Use)
Level: Heading:
Usage: Optional (Must Use)
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 Free-form text for city name	O AN 2/30
>>	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
>>	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
X	N404	26	Country Code Code identifying the country	O ID 2/3
X	N405	309	Location Qualifier Code identifying type of location Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
X	N406	310	Location Identifier Code which identifies a specific location	O AN 1/30



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Segment: **N9** Reference Identification
Position: 110
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional (Must Use)
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:

Notes:

The "IT" qualifier identifies a Schenker Account Number
The "CR" qualifier identifies a customer reference number

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification CR Customer Reference Number IT Internal Customer Number	M ID 2/3
>>	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	N903	369	Free-form Description Free-form descriptive text	X AN 1/45
X	N904	373	Date Date expressed as CCYYMMDD	O DT 8/8
	N905	337	Time 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)	X TM 4/8
	N906	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	N907	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04002	127	Reference Identification	X AN 1/30



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X	C04003	128	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Reference Identification Qualifier Code qualifying the Reference Identification	X	ID 2/3
X	C04004	127	Refer to 004010 Data Element Dictionary for acceptable code values. Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN 1/30
X	C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/3
X	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN 1/30



Detail Segments

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.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>> LX01	554	Assigned Number	M NO 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 (Must Use)
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.	Data	Name	Attributes
	Des.	Element		
>>	P101	108	Pick-up or Delivery Code Specifies the location or type of pickup or delivery AT Airport Terminal SD Shippers Door	O ID 1/2
>>	P102	109	Pick-up Date Date the carrier picks up the shipment from the shipper or supplier expressed in format CCYYMMDD	M DT 8/8
>>	P103	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 140 Actual	M ID 3/3
>>	P104	111	Pick-up Time Time (HHMM) that the carrier is to pick up the shipment	O TM 4/4
X	P105	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	O AN 1/4
X	P106	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	O AN 1/10
X	P107	21	Number of Shipments Total number of shipments on this transaction	O NO 1/5



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Segment: **R1** Route Information (Air)
Position: 090
Loop: LX Mandatory
Level: Detail:
Usage: Optional (Must Use)
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>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	R101	140	Standard Carrier Alpha Code Standard Carrier Alpha Code Schenker SCAC code is SIFF	O ID 2/4
X	R102	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O ID 2/4
>>	R103	5	Airport Code Code (IATA) for airport	M ID 3/5
>>	R104	4	Air Carrier Code Code (IATA) for the air carrier Always SFF	M ID 3/3
>>	R105	5	Airport Code Code (IATA) for airport	M ID 3/5
X	R106	4	Air Carrier Code Code (IATA) for the air carrier	X ID 3/3
X	R107	5	Airport Code Code (IATA) for airport	X ID 3/5
X	R108	4	Air Carrier Code Code (IATA) for the air carrier	X ID 3/3
X	R109	5	Airport Code Code (IATA) for airport	X ID 3/5
X	R110	4	Air Carrier Code Code (IATA) for the air carrier	X ID 3/3
X	R111	5	Airport Code Code (IATA) for airport	X ID 3/5
X	R112	4	Air Carrier Code Code (IATA) for the air carrier	X ID 3/3
X	R113	5	Airport Code Code (IATA) for airport	X 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:

Notes:

Used if a POD was available in Schenker system at the time original invoice was prepared.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>> 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)		
>> 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>
	<u>Des.</u>	<u>Element</u>		
>>	L501	213	Lading Line Item Number Sequential line number for a lading item Always "1"	O NO 1/3
>>	L502	79	Lading Description Description of an item as required for rating and billing purposes	O AN 1/50
X	L503	22	Commodity Code Code describing a commodity or group of commodities	X AN 1/30
X	L504	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1
X	L505	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/5
X	L506	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	X AN 1/48
X	L507	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
X	L508	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1
X	L509	22	Commodity Code Code describing a commodity or group of commodities	X AN 1/30
X	L510	595	Compartment ID Code Code identifying the compartment in a compartmentalized tank car Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1



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Segment: **L0** Line Item - Quantity and Weight
Position: 155
Loop: L5 Mandatory
Level: Detail
Usage: Optional (Must Use)
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.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>>	L001	213	Lading Line Item Number Sequential line number for a lading item	O NO 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 FR Flat Rate KG Kilogram LB Pound	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 G Gross Weight	X ID 1/2
X	L006	183	Volume Value of volumetric measure	X R 1/8
X	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 NO 1/7
>>	L009	211	Packaging Form Code Code for packaging form of the lading quantity	X ID 3/3



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			PCS	Pieces		
X	L010	458	Dunnage Description		O	AN 2/25
			Material used to protect lading			
>>	L011	188	Weight Unit Code		O	ID 1/1
			Code specifying the weight unit			
			K	Kilograms		
			L	Pounds		
X	L012	56	Type of Service Code		O	ID 2/2
			Code specifying extent of transportation service requested			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
X	L013	380	Quantity		X	R 1/15
			Numeric value of quantity			
X	L014	211	Packaging Form Code		O	ID 3/3
			Code for packaging form of the lading quantity			
			Refer to 004010 Data Element Dictionary for acceptable code values.			
X	L015	1073	Yes/No Condition or Response Code		X	ID 1/1
			Code indicating a Yes or No condition or response			
			Refer to 004010 Data Element Dictionary for acceptable code values.			



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Segment: L4 Measurement
Position: 163
Loop: L5 Mandatory
Level: Detail:
Usage: Optional (Must Use)
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:

Notes:

Schenker does deviate from the standard and will send this segment up to 10 times.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>M</u>	<u>R</u> <u>1/8</u>
>>	L401 82 Length	M	R 1/8
	Largest horizontal dimension of an object measured when the object is in the upright position		
>>	L402 189 Width	M	R 1/8
	Shorter measurement of the two horizontal dimensions measured with the object in the upright position		
>>	L403 65 Height	M	R 1/8
	Vertical dimension of an object measured when the object is in the upright position		
>>	L404 90 Measurement Unit Qualifier	M	ID 1/1
	Code specifying the linear dimensional unit		
	N	Inches	
	C	Centimeters	
>>	L405 380 Quantity	O	R 1/15
	Numeric value of quantity		
X	L406 1271 Industry Code	O	AN 1/30
	Code indicating a code from a specific industry code list		



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Segment: **L10** Weight
Position: 165
Loop: L5 Mandatory
Level: Detail:
Usage: Optional (Must Use)
Max Use: 4
Purpose: To transmit weight information

Syntax Notes:

Semantic Notes:

Comments:

Notes:

This segment will be used three times, to convey

- 1) actual weight,
- 2) dimensional weight as calculated by the dimensions provided and
- 3) billed weight, the highest of the actual or dimensional weight

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	L1001	81	Weight Numeric value of weight	M R 1/10
>>	L1002	187	Weight Qualifier Code defining the type of weight A Consolidated Weight A1 Dimensional Weight B Billed 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: **L1** Rate and Charges
Position: 176
Loop: L1 Optional (Must Use)
Level: Detail:
Usage: Optional (Must Use)
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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	L101	213	Lading Line Item Number Sequential line number for a lading item Always "1"	O N0 1/3
X	L102	60	Freight Rate Rate that applies to the specific commodity	X R 1/9
X	L103	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
>>	L104	58	Charge 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	X N2 1/12
X	L105	191	Advances Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, pricing) expressed in the standard monetary denomination for the currency specified	X N2 1/9
X	L106	117	Prepaid Amount Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified	X N2 1/9
X	L107	120	Rate Combination Point Code The code denoting the connecting station for a joint rate obtained by combining two or more published rates which are used for the calculation of transportation charges Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/9
>>	L108	150	Special Charge or Allowance Code Code identifying type of special charge or allowance Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 3/3
X	L109	121	Rate Class Code Code identifying specifically designated class of goods; Note: For international air shipments, see IATA Resolution 600k	O ID 1/3

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X	L110	39	Refer to 004010 Data Element Dictionary for acceptable code values. Entitlement Code O ID 1/1 Code identifying entitlement party
X	L111	16	Refer to 004010 Data Element Dictionary for acceptable code values. Charge Method of Payment O ID 1/1 Code defining method of payment
X	L112	276	Refer to 004010 Data Element Dictionary for acceptable code values. 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
X	L113	257	Tariff Application Code O ID 1/1 Code indicating to which traffic a tariff applies
X	L114	74	Refer to 004010 Data Element Dictionary for acceptable code values. Declared Value X N2 2/12 Monetary assigned value expressed in the standard monetary denomination for the currency specified
X	L115	122	Rate/Value Qualifier X ID 2/2 Code qualifying how to extend charges or interpret value BL Bill of Lading Declared Value
X	L116	372	Lading Liability Code O ID 1/1 Code identifying limits of liability
X	L117	220	Refer to 004010 Data Element Dictionary for acceptable code values. 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
X	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
X	L119	954	Refer to 004010 Data Element Dictionary for acceptable code values. Percent O R 1/10 Percentage expressed as a decimal
X	L120	100	Currency Code O ID 3/3 Code (Standard ISO) for country in whose currency the charges are specified
X	L121	610	Amount O N2 1/15 Monetary amount



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Segment: **SL1** Tariff Reference
Position: 167
Loop: L5 Mandatory
Level: Detail:
Usage: Optional (Must Use)
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.	Data	Name	Attributes
	Des.	Element		
>>	SL101	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier Please contact Schenker for current list of Service Level Codes	M ID 2/2
>>	SL102	171	Tariff Number Standard tariff number for the tariff which governs the rates applied to the commodity item(s) To report the Schenker tariff used to rate a shipment	O AN 1/7
>>	SL103	22	Commodity Code Same as SL102 To report the Schenker tariff used to rate a shipment	X AN 1/30
X **Not Used **	SL104	320	Scale A carrier-maintained reference used to further identify a schedule of rates within a tariff	X AN 1/10
X **Not Used **	SL105	373	Date Date expressed as CCYYMMDD	O DT 8/8
X	SL106	284	Service Level Code Same as SL101	O ID 2/2
X **Not Used **	SL107	146	Shipment Method of Payment Code identifying payment terms for transportation charges Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X **Not Used **	SL108	982	Data Source Code Code identifying source of data Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X **Not Used **	SL109	210	International/Domestic Code Code indicating international or domestic shipment Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1



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Segment: **L3** Total Weight and Charges
Position: 005
Loop:
Level: Summary:
Usage: Optional (Must Use)
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.	Data			
<u>Des.</u>	<u>Element</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		
		G Gross Weight		
>>	L303	60 Freight Rate	X	R 1/9
		Rate that applies to the specific commodity		
>>	L304	122 Rate/Value Qualifier	X	ID 2/2
		Code qualifying how to extend charges or interpret value		
		FR Flat Rate		
		KG Per Kilograms		
		LB Per Pound		
>>	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		
X	L306	191 Advances	O	N2 1/9
		Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reassignment, icing) expressed in the standard monetary denomination for the currency specified		
X	L307	117 Prepaid Amount	O	N2 1/9
		Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified		
X	L308	150 Special Charge or Allowance Code	O	ID 3/3
		Code identifying type of special charge or allowance		
		Refer to 004010 Data Element Dictionary for acceptable code values.		
>>	L309	183 Volume	X	R 1/8
		Value of volumetric measure		
>>	L310	184 Volume Unit Qualifier	X	ID 1/1
		Code identifying the volume unit		
		N Cubic Inches		

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>>	L311	80	Lading Quantity Number of units (pieces) of the lading commodity	<input type="radio"/>	N0 1/7
X	L312	188	Weight Unit Code Code specifying the weight unit Refer to 004010 Data Element Dictionary for acceptable code values.	<input type="radio"/>	ID 1/1
X	L313	171	Tariff Number Standard tariff number for the tariff which governs the rates applied to the commodity item(s)	<input type="radio"/>	AN 1/7
	L314	74	Declared Value Monetary assigned value expressed in the standard monetary denomination for the currency specified	<input checked="" type="checkbox"/>	N2 2/12
	L315	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 004010 Data Element Dictionary for acceptable code values.	<input checked="" type="checkbox"/>	ID 2/2



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Segment: **NTE** Note/Special Instruction
Position: 035
Loop:
Level: Summary:
Usage: Optional
Max Use: 5
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

Syntax Notes:

Semantic Notes:

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	NTE01	363 Note Reference Code	O ID 3/3
		Code identifying the functional area or purpose for which the note applies	
		DEL Delivery	
		GEN Entire Transaction Set	
		INV Invoice Instruction	
>>	NTE02	352 Description	M AN 1/80
		A free-form description to clarify the related data elements and their content	



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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>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	SE01	96	Number of Included Segments	M NO 1/10
			Total number of segments included in a transaction set including ST and SE segments	
>>	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	



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Appendix I Sample Data

ST*110*000000001
B3**88799686*3070-C*PP*K*20030530*13753**20030529*003*SIFF
B3A*SS*1
N1*BT*CUSTOMER NAME
N2*ATTN EXPORT DEPT
N3*1900 MAIN ST*METRO PARK PARK
N4*ANYTOWN*MA*0100*US
N9*IT*123456
N1*SH*CUSTOMER NAME
N2*ATTN EXPORT DEPT
N3*1900 MAIN ST*METRO PARK PARK
N4*ANYTOWN*MA*0100*US
N9*IT*432694
N9*CR*3070-C
N1*CN*MEGAWATT TECHNOLOGIES INC
N3*44 3RD ST*ELECTRONICS CITY RD
N4*OTHERTON 561999*HG**IN
N9*IT*973902
N9*CR*052103
LX*1
P1*SD*20030521*140*1955
R1*SIFF**BOS*SFF*BLR
POD*20030529*1200*CAPITAL
L5*1*COMPUTER PARTS***PCS
L0*1*999*FR*99.5*G***1*PCS**K
L4*23*23*16*N*1
L10*13*A*K
L10*23.5*A1*K
L10*23.5*B*K
SL1*SE*41002*41002***SE
L1*1*114*FR*1990****400****FREIGHT CHARGE
L1*2*114*FR*1000****405****FUEL SURCHARGE
L1*3*114*FR*1000****WAR****SECURITY SURCHG
L1*4*114*FR*1000****999****SED PREP OR TRANSMISSION
L3*99.5*G*114*FR*1990****8464*N*1
NTE*GEN*XN 08879968600102458
SE*0000000033*000000001