

EDI 110 Invoice

Air Freight 110 Invoice

Version: ANSI X.12 - 4010 Draft

Author:

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Notes:

**EDI 110 Invoice
Version 4010 X.12**

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110 Air Freight Details and Invoice

Functional Group=IA

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.

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	B3	Beginning Segment for Carrier's Invoice	M	1			Must use
030	B3A	Invoice Type	O	1			Used
065	ITD	Terms of Sale/Deferred Terms of Sale	O	1			Used

<u>LOOP ID - N1</u>					<u>3</u>	<u>N1/075L</u>	
075	N1	Name	O	1		N1/075	Used
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used
110	N9	Reference Identification	O	10			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<u>LOOP ID - LX</u>					<u>9999</u>		
010	LX	Assigned Number	M	1			Must use
<u>LOOP ID - N1</u>					<u>2</u>	<u>N2/020L</u>	
020	N1	Name	O	1		N2/020	Used
030	N2	Additional Name Information	O	1			Used
040	N3	Address Information	O	2			Used
050	N4	Geographic Location	O	1			Used
060	N9	Reference Identification	O	10			Used
085	P1	Pick-up	O	1			Used
090	R1	Route Information (Air)	O	1			Used
100	POD	Proof of Delivery	O	1			Used
110	V9	Event Detail	O	1			Used
<u>LOOP ID - L5</u>					<u>4</u>		
150	L5	Description, Marks and Numbers	M	1			Must use
160	L0	Line Item - Quantity and	O	1			Used

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
		Weight					
163	L4	Measurement	O	4			Used
165	L10	Weight	O	4			Used
167	SL1	Tariff Reference	O	1			Used
LOOP ID - L1					30		
175	L1	Rate and Charges	O	1			Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
015	L3	Total Weight and Charges	M	1			Must use
045	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

- 1/075L The N1 Loop is used only to convey entity information relevant to the debtor or for a party other than the shipper or consignee.
- 1/075 The N1 Loop is used only to convey entity information relevant to the debtor or for a party other than the shipper or consignee.
- 2/020L The N1 loop is used to convey entity information relevant to the shipper and consignee.
- 2/020 The N1 loop is used to convey entity information relevant to the shipper and consignee.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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	M	ID	2/2	Must use
Description: Code to identify the type of information in the Authorization Information						
Code Name						
00 No Authorization Information Present (No Meaningful Information in I02)						
ISA02	I02	Authorization Information	M	AN	10/10	Must use
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)						
ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
Description: Code to identify the type of information in the Security Information						
Code Name						
00 No Security Information Present (No Meaningful Information in I04)						
ISA04	I04	Security Information	M	AN	10/10	Must use
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)						
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
Code Name						
ZZ Mutually Defined						
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
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						
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
Code Name						
ZZ Mutually Defined						
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
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						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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
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: Code specifying the version number of the interchange control segments Code Name 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	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) Code Name 0___ No Acknowledgment Requested	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 Code Name P___ Production Data	M	ID	1/1	Must use
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

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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	M	ID	2/2	Must use
Description: Code identifying a group of application related transaction sets						
Code Name						
IA Air Freight Details and Invoice (110, 980)						
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						
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 identifying the issuer of the standard; this code is used in conjunction with Data Element 480						
Code Name						
X Accredited Standards Committee X12						
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						

<u>Code</u>	<u>Name</u>
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

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

ST Transaction Set Header

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

User Option (Usage): Must use

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

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>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
Description: Code uniquely identifying a Transaction Set						
Code Name						
110 Air Freight Details and Invoice						
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

Semantics:

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

B3 Beginning Segment for Carrier's Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 7

User Option (Usage): Must use

To transmit basic data relating to the carrier's invoice

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>
B302	76	Invoice Number	M	AN	1/22	Must use
		Description: Identifying number assigned by issuer				
B304	146	Shipment Method of Payment	M	ID	2/2	Must use
		Description: Code identifying payment terms for transportation charges				
		<u>Code</u>		<u>Name</u>		
		MX		Mixed		
B306	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
B307	193	Net Amount Due	M	N2	1/12	Must use
		Description: Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified				
B311	140	Standard Carrier Alpha Code	M	ID	2/4	Must use
		Description: Standard Carrier Alpha Code				
B312	373	Date	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				
B313	375	Tariff Service Code	O	ID	2/2	Used
		Description: Code specifying the types of services for rating purposes				
		<u>Code</u>		<u>Name</u>		
		BF		Unaccompanied Baggage for International Commercial Air Transport		

Syntax Rules:

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

Semantics:

1. B306 is the billing date.
2. On collect freight bills the data in B309 will be the actual delivery date. For the shipments invoiced prior to delivery, the B309 will be the estimated date of delivery.
3. If B314 is used, B304 will indicate the party or parties responsible for payment of the transportation terms identified in B314.

B3A Invoice Type

Pos: 030	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To indicate type of invoice and number of shipments

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>
B3A01	640	Transaction Type Code	M	ID	2/2	Must use
Description: Code specifying the type of transaction						
Code Name						
SM Single Shipper, Multiple Consignees						
B3A02	21	Number of Shipments	O	N0	1/5	Used
Description: Total number of shipments on this transaction						

Comments:

1. B3A02 is the number of shipments invoiced.

ITD Terms of Sale/Deferred Terms of Sale

Pos: 065	Max: 1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify terms of sale

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>
ITD01	336	Terms Type Code	O	ID	2/2	Used
Description: Code identifying type of payment terms						
Code Name						
05 Discount Not Applicable						
ITD02	333	Terms Basis Date Code	O	ID	1/2	Used
Description: Code identifying the beginning of the terms period						
Code Name						
3 Invoice Date						
ITD07	386	Terms Net Days	O	N0	1/3	Used
Description: Number of days until total invoice amount is due (discount not applicable)						

Syntax Rules:

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Loop N1

Pos: 075	Repeat: 3
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
075	N1	Name	O	1		Used
090	N3	Address Information	O	2		Used
100	N4	Geographic Location	O	1		Used
110	N9	Reference Identification	O	10		Used

N1 Name

Pos: 075	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

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

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>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
Description: Code identifying an organizational entity, a physical location, property or an individual						
Code Name						
BT Bill-to-Party						
RI Remit To						
N102	93	Name	X	AN	1/60	Used
Description: Free-form name						

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N3 Address Information

Pos: 090	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify the location of the named party

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>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To specify the geographic place of the named party

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

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

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.

N9 Reference Identification

Pos: 110	Max: 10
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To transmit identifying information as specified by the Reference Identification Qualifier

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>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code Name

- 14 Master Account Number
- IT Internal Customer Number

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

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

Loop LX

Pos: 010	Repeat: 9999
Mandatory	
Loop: LX	Elements: N/A

User Option (Usage): Must use

To reference a line number in a transaction set

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	LX	Assigned Number	M	1		Must use
020		Loop N1	O		2	Used
085	P1	Pick-up	O	1		Used
090	R1	Route Information (Air)	O	1		Used
100	POD	Proof of Delivery	O	1		Used
110	V9	Event Detail	O	1		Used
150		Loop L5	M		4	Must use

LX Assigned Number

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LX	Elements: 1

User Option (Usage): Must use

To reference a line number in a transaction set

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>
LX01	554	Assigned Number	M	N0	1/6	Must use

Description: Number assigned for differentiation within a transaction set

Loop N1

Pos: 020	Repeat: 2
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
020	N1	Name	O	1		Used
030	N2	Additional Name Information	O	1		Used
040	N3	Address Information	O	2		Used
050	N4	Geographic Location	O	1		Used
060	N9	Reference Identification	O	10		Used

N1 Name

Pos: 020	Max: 1
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

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

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>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
Description: Code identifying an organizational entity, a physical location, property or an individual						
Code Name						
CN Consignee						
SH Shipper						
N102	93	Name	X	AN	1/60	Used
Description: Free-form name						

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N2 Additional Name Information

Pos: 030	Max: 1
Detail - Optional	
Loop: N1	Elements: 1

User Option (Usage): Used

To specify additional names or those longer than 35 characters in length

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>
N201	93	Name	M	AN	1/60	Must use

Description: Free-form name

N3 Address Information

Pos: 040	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify the location of the named party

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>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 050	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To specify the geographic place of the named party

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

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

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.

N9 Reference Identification

Pos: 060	Max: 10
Detail - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

To transmit identifying information as specified by the Reference Identification Qualifier

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>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code Name

- AW Air Waybill Number
- CR Customer Reference Number
- DD Document Identification Code
- IT Internal Customer Number

N902	127	Reference Identification	X	AN	1/30	Used
------	-----	--------------------------	---	----	------	------

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

N903	369	Free-form Description	X	AN	1/45	Used
------	-----	-----------------------	---	----	------	------

Description: Free-form descriptive text

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

P1 Pick-up

Pos: 085	Max: 1
Detail - Optional	
Loop: LX	Elements: 3

User Option (Usage): Used

To specify the pick-up details including time, date, and equipment

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>
P101	108	Pick-up or Delivery Code	O	ID	1/2	Used
Description: Specifies the location or type of pickup or delivery						
<u>Code</u> <u>Name</u>						
DB Drop Box						
SD Shippers Door						
P102	109	Pick-up Date	M	DT	8/8	Must use
Description: Date the carrier picks up the shipment from the shipper or supplier expressed in format CCYYMMDD						
P103	374	Date/Time Qualifier	M	ID	3/3	Must use
Description: Code specifying type of date or time, or both date and time						
<u>Code</u> <u>Name</u>						
011 Shipped						

Semantics:

1. P107 is the number of shipments tendered.

Comments:

1. P103 is the pick-up date qualifier.

R1 Route Information (Air)

Pos: 090	Max: 1
Detail - Optional	
Loop: LX	Elements: 4

User Option (Usage): Used

To specify airline and airport routing sequences

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>
R101	140	Standard Carrier Alpha Code	O	ID	2/4	Used
		Description: Standard Carrier Alpha Code				
R103	5	Airport Code	M	ID	3/5	Must use
		Description: Code (IATA) for airport				
R104	4	Air Carrier Code	M	ID	3/3	Must use
		Description: Code (IATA) for the air carrier				
R105	5	Airport Code	M	ID	3/5	Must use
		Description: Code (IATA) for airport				

Syntax Rules:

1. P0607 - If either R106 or R107 is present, then the other is required.
2. P0809 - If either R108 or R109 is present, then the other is required.
3. P1011 - If either R110 or R111 is present, then the other is required.
4. P1213 - If either R112 or R113 is present, then the other is required.

POD Proof of Delivery

Pos: 100	Max: 1
Detail - Optional	
Loop: LX	Elements: 3

User Option (Usage): Used

To provide proof of delivery

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>
POD01	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						
POD02	337	Time	O	TM	4/8	Used
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)						
POD03	93	Name	M	AN	1/60	Must use
Description: Free-form name						

V9 Event Detail

Pos: 110	Max: 1
Detail - Optional	
Loop: LX	Elements: 4

User Option (Usage): Used

To specify information about a specific event

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>
V901	304	Event Code	M	ID	3/3	Must use
Description: Code identifying the event about which a report is made						
Code Name						
DDL Delivery Attempt						
V904	337	Time	X	TM	4/8	Used
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)						
V908	641	Status Reason Code	O	ID	3/3	Used
Description: Code indicating the status reason						
Code Name						
A32 Aircraft Arrived Late In Hub						
V912	61	Free-Form Message	O	AN	1/30	Used
Description: Free-form information						

Syntax Rules:

1. P1011 - If either V910 or V911 is present, then the other is required.
2. C1304 - If V913 is present, then V904 is required.
3. C1509 - If V915 is present, then V909 is required.

Semantics:

1. V903 is the event date.
2. V904 is the event time.
3. V909 is the Standard Point Location Code (SPLC) of the event shown in the V901.
4. V910 is the length of the time delay expressed in hours.
5. V913 reflects the time zone which the event time reflects.
6. V914 is the quantity of the fuel in gallons.
7. V915 is the Standard Point Location Code (SPLC) of the secondary point of the delay indicated in the V911.
8. V916 is the total number of rail cars associated with the event code in V901.
9. V917 is the total number of loaded cars associated with the event code in V901.
10. V918 is the total number of empty cars associated with the event code in V901.
11. V919 is the total Gross Tons of the cars identified in V916. Includes the gross weight of the loads and the tare weight of the empties.

12. V920 is the total outside foot length of the cars identified in V916, rounded off to the nearest foot.

Loop L5

Pos: 150	Repeat: 4
Mandatory	
Loop: L5	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
150	L5	Description, Marks and Numbers	M	1		Must use
160	L0	Line Item - Quantity and Weight	O	1		Used
163	L4	Measurement	O	4		Used
165	L10	Weight	O	4		Used
167	SL1	Tariff Reference	O	1		Used
175		Loop L1	O		30	Used

L5 Description, Marks and Numbers

Pos: 150	Max: 1
Detail - Mandatory	
Loop: L5	Elements: 5

User Option (Usage): Must use

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

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>
L501	213	Lading Line Item Number	O	N0	1/3	Used
		Description: Sequential line number for a lading item				
L502	79	Lading Description	O	AN	1/50	Used
		Description: Description of an item as required for rating and billing purposes				
L503	22	Commodity Code	X	AN	1/30	Used
		Description: Code describing a commodity or group of commodities				
L504	23	Commodity Code Qualifier	X	ID	1/1	Used
		Description: Code identifying the commodity coding system used for Commodity Code				
		<u>Code</u>	<u>Name</u>			
		Z	Mutually defined			
L505	103	Packaging Code	O	AN	3/5	Used
		Description: 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				
		<u>Code</u>	<u>Name</u>			
		ENV	Envelope			
		PCK	Packed - not otherwise specified			
		PKG	Package			

Syntax Rules:

1. P0304 - If either L503 or L504 is present, then the other is required.
2. C0706 - If L507 is present, then L506 is required.
3. P0809 - If either L508 or L509 is present, then the other is required.

Comments:

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

L0 Line Item - Quantity and Weight

Pos: 160	Max: 1
Detail - Optional	
Loop: L5	Elements: 6

User Option (Usage): Used

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

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>
L001	213	Lading Line Item Number	O	N0	1/3	Used
		Description: Sequential line number for a lading item				
L004	81	Weight	X	R	1/10	Used
		Description: Numeric value of weight				
L005	187	Weight Qualifier	X	ID	1/2	Used
		Description: Code defining the type of weight				
		<u>Code</u> <u>Name</u>				
		G Gross Weight				
L008	80	Lading Quantity	X	N0	1/7	Used
		Description: Number of units (pieces) of the lading commodity				
L009	211	Packaging Form Code	X	ID	3/3	Used
		Description: Code for packaging form of the lading quantity				
		<u>Code</u> <u>Name</u>				
		PCS Pieces				
L011	188	Weight Unit Code	O	ID	1/1	Used
		Description: Code specifying the weight unit				
		<u>Code</u> <u>Name</u>				
		L Pounds				

Syntax Rules:

1. P0203 - If either L002 or L003 is present, then the other is required.
2. P0405 - If either L004 or L005 is present, then the other is required.
3. P0607 - If either L006 or L007 is present, then the other is required.
4. P0809 - If either L008 or L009 is present, then the other is required.
5. C1104 - If L011 is present, then L004 is required.
6. P1315 - If either L013 or L015 is present, then the other is required.

Semantics:

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.

L4 Measurement

Pos: 163	Max: 4
Detail - Optional	
Loop: L5	Elements: 6

User Option (Usage): Used

To describe physical dimensions and quantities

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

Semantics:

1. L406 is the Rounding in Pattern for dimensional shipments.

L10 Weight

Pos: 165	Max: 4
Detail - Optional	
Loop: L5	Elements: 3

User Option (Usage): Used

To transmit weight 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>
L1001	81	Weight	M	R	1/10	Must use
		Description: Numeric value of weight				
L1002	187	Weight Qualifier	M	ID	1/2	Must use
		Description: Code defining the type of weight				
		<u>Code</u> <u>Name</u>				
		N Actual Net Weight				
		A1 Dimensional Weight				
L1003	188	Weight Unit Code	O	ID	1/1	Used
		Description: Code specifying the weight unit				
		<u>Code</u> <u>Name</u>				
		L Pounds				

SL1 Tariff Reference

Pos: 167	Max: 1
Detail - Optional	
Loop: L5	Elements: 7

User Option (Usage): Used

To reference details of the tariff used to arrive at applicable rates or charges for customer-requested service

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>
SL101	284	Service Level Code	M	ID	2/2	Must use
		Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier				
		Code Name				
		AE				Air Economy
		NM				Next Morning
		ON				Overnight
SL102	171	Tariff Number	O	AN	1/7	Used
		Description: Standard tariff number for the tariff which governs the rates applied to the commodity item(s)				
SL103	22	Commodity Code	X	AN	1/30	Used
		Description: Code describing a commodity or group of commodities				
SL104	320	Scale	X	AN	1/10	Used
		Description: A carrier-maintained reference used to further identify a schedule of rates within a tariff				
SL107	146	Shipment Method of Payment	O	ID	2/2	Used
		Description: Code identifying payment terms for transportation charges				
		Code Name				
		CC				Collect
		PP				Prepaid (by Seller)
		TP				Third Party Pay
SL108	982	Data Source Code	O	ID	2/2	Used
		Description: Code identifying source of data				
		Code Name				
		01				Airbill
		09				Electronic Input (Other Than Code 07)
SL109	210	International/Domestic Code	O	ID	1/1	Used
		Description: Code indicating international or domestic shipment				
		Code Name				
		I				International

Syntax Rules:

1. R0304 - At least one of SL103 or SL104 is required.

Semantics:

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.

Loop L1

Pos: 175	Repeat: 30
Optional	
Loop: L1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
175	L1	Rate and Charges	O	1		Used

L1 Rate and Charges

Pos: 175	Max: 1
Detail - Optional	
Loop: L1	Elements: 5

User Option (Usage): Used

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

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>
L104	58	Charge	X	N2	1/12	Used

Description: For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified

L108	150	Special Charge or Allowance Code	O	ID	3/3	Used
------	-----	---	---	----	-----	------

Description: Code identifying type of special charge or allowance

Code Name

045 Advance Fee
 080 Air Transportation Charge
 315 Duty Charge
 405 Fuel Surcharge
 DSC Discount
 GST Goods and Services Tax Charge

L112	276	Special Charge Description	O	AN	2/25	Used
------	-----	-----------------------------------	---	----	------	------

Description: Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150

L119	954	Percent	O	R	1/10	Used
------	-----	----------------	---	---	------	------

Description: Percentage expressed as a decimal

L120	100	Currency Code	O	ID	3/3	Used
------	-----	----------------------	---	----	-----	------

Description: Code (Standard ISO) for country in whose currency the charges are specified

Syntax Rules:

1. P0203 - If either L102 or L103 is present, then the other is required.
2. R040506 - At least one of L104, L105 or L106 is required.
3. P1415 - If either L114 or L115 is present, then the other is required.
4. P1718 - If either L117 or L118 is present, then the other is required.

Semantics:

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.

L3 Total Weight and Charges

Pos: 015	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L305	58	Charge	O	N2	1/12	Used

Description: For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified

Syntax Rules:

1. P0102 - If either L301 or L302 is present, then the other is required.
2. P0304 - If either L303 or L304 is present, then the other is required.
3. P0910 - If either L309 or L310 is present, then the other is required.
4. C1201 - If L312 is present, then L301 is required.
5. P1415 - If either L314 or L315 is present, then the other is required.

Semantics:

1. L305 is the total charges.

SE Transaction Set Trailer

Pos: 045	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	NO	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

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

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Semantics:

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

Comments:

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

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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	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						