Parcel 110 Air Freight Details and Invoice

X12/V4010/110 : 110 Air Freight Details and Invoice

Version: 1.0 Final

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110 Air Freight Details and Invoice

Functional Group=IA

Purpose: 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.

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 relevent to the shipper and consignee.
2/020	The N1 loop is used to convey entity information relevent to the shipper and consignee.

Not Defined:

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

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	B3	Beginning Segment for Carrier's Invoice	M	1			Must use
030	B3A	Invoice Type	O	1			Used
050	C3	Currency	O	1			Used
065	ITD	Terms of Sale/Deferred Terms of Sale	O	1			Used
LOOP ID - N1					**3**	**N1/075L**	
075	N1	Name	M	1		N1/075	Must use
080	N2	Additional Name Information	O	1			Used
090	N3	Address Information	O	2			Must use
100	N4	Geographic Location	O	1			Must use
110	N9	Reference Identification	O	10			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LX					**1**		
010	LX	Assigned Number	M	1			Must use
LOOP ID - N1					**2**	**N2/020L**	
020	N1	Name	O	1		N2/020	Must use
040	N3	Address Information	O	2			Must use
050	N4	Geographic Location	O	1			Must use
085	P1	Pick-up	O	1			Used

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
090	R1	Route Information (Air)	O	1			Must use
100	POD	Proof of Delivery	O	1			Used
110	V9	Event Detail	O	1			Used
125	RMT	Remittance Advice	O	10			Used
140	NTE	Note/Special Instruction	O	10			Used
LOOP ID - L5					**4**		
150	L5	Description, Marks and Numbers	O	1			Must use
160	L0	Line Item - Quantity and Weight	M	1			Must use
163	L4	Measurement	O	4			Used
165	L10	Weight	O	4			Must use
167	SL1	Tariff Reference	O	1			Used
LOOP ID - L1					**30**		
175	L1	Rate and Charges	M	1			Must use
180	C3	Currency	O	1			Used

Summary:

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

ISA   Interchange Control Header

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

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use

Description: Code to identify the type of information in the Authorization Information
All valid standard codes are used. (Total Codes: 7)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use

Description: Code to identify the type of information in the Security Information
All valid standard codes are used. (Total Codes: 2)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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
All valid standard codes are used. (Total Codes: 38)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 List Summary (Total Codes: 38, Included: 1)

Code	Name
02	SCAC (Standard Carrier Alpha Code)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 receiving ID to route data to them

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA09	I08	**Interchange Date**	M	DT	6/6	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		Description: Date of the interchange				
ISA10	I09	**Interchange Time**	M	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Must use

Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer
All valid standard codes are used. (Total Codes: 1)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Must use

Description: Code specifying the version number of the interchange control segments

Code List Summary (Total Codes: 14, Included: 3)

Code	Name
00400	Standard Issued as ANSI X12.5-1997
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997
00402	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1998

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA13	I12	**Interchange Control Number**	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				
ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Must use

Description: Code sent by the sender to request an interchange acknowledgment (TA1)
All valid standard codes are used. (Total Codes: 2)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA15	I14	**Usage Indicator**	M	ID	1/1	Must use

Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information
All valid standard codes are used. (Total Codes: 3)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA16	I15	**Component Element Separator**	M		1/1	Must use

Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

GS   Functional Group Header

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

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use

Description: Code identifying a group of application related transaction sets

Code List Summary (Total Codes: 240, Included: 1)

Code	Name
IA	Air Freight Details and Invoice (110, 980)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use

Description: Code identifying party sending transmission; codes agreed to by trading partners

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use

Description: Code identifying party receiving transmission; codes agreed to by trading partners

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS04	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS06	28	**Group Control Number**	M	N0	1/9	Must use

Description: Assigned number originated and maintained by the sender

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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
All valid standard codes are used. (Total Codes: 2)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use

Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

Code List Summary (Total Codes: 39, Included: 1)

Code	Name
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

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

Pos: 010 **Max: 1**

Heading - Mandatory

Loop: N/A **Elements: 2**

</div>

User Option (Usage): Must use

Purpose: 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 List Summary (Total Codes: 298, Included: 1)

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

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

Pos: 020   **Max: 1**

Heading - Mandatory

Loop: N/A   **Elements: 14**

</div>

User Option (Usage): Must use

Purpose: To transmit basic data relating to the carrier's invoice

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B301	147	**Shipment Qualifier**	O	ID	1/1	Used

Description: Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time
All valid standard codes are used. (Total Codes: 35)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B302	76	**Invoice Number**	M	AN	1/22	Must use

Description: Identifying number assigned by issuer

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B303	145	**Shipment Identification Number**	O	AN	1/30	Used

Description: Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B304	146	**Shipment Method of Payment**	M	ID	2/2	Must use

Description: Code identifying payment terms for transportation charges

Code List Summary (Total Codes: 28, Included: 3)

Code	Name
CC	Collect
PP	Prepaid (by Seller)
TP	Third Party Pay

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B305	188	**Weight Unit Code**	O	ID	1/1	Used

Description: Code specifying the weight unit
All valid standard codes are used. (Total Codes: 8)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B306	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B308	202	**Correction Indicator**	O	ID	2/2	Used

Description: Code used to indicate that the transaction set contains information which corrects previous information
All valid standard codes are used. (Total Codes: 36)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B309	32	**Delivery Date**	M	DT	8/8	Must use

Description: Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B310	374	**Date/Time Qualifier**	M	ID	3/3	Must use

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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name
035   Delivered

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B311	140	**Standard Carrier Alpha Code**	M	ID	2/4	Must use

Description: Standard Carrier Alpha Code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B312	373	**Date**	O	DT	8/8	Used

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B313	375	**Tariff Service Code**	O	ID	2/2	Used

Description: Code specifying the types of services for rating purposes
All valid standard codes are used. (Total Codes: 79)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B314	335	**Transportation Terms Code**	O	ID	3/3	Used

Description: Code identifying the trade terms which apply to the shipment transportation responsibility
All valid standard codes are used. (Total Codes: 25)

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

Purpose: To indicate type of invoice and number of shipments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B3A01	640	**Transaction Type Code**	M	ID	2/2	Must use

Description: Code specifying the type of transaction

Code List Summary (Total Codes: 446, Included: 1)

Code	Name
21	Air Import Invoice

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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.

C3 Currency

Pos: 050   Max: 1
Heading - Optional
Loop: N/A   Elements: 1

User Option (Usage): Used

Purpose: To specify the currency being used in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
C301	100	**Currency Code**	M	ID	3/3	Must use

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

Semantics:

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

Comments:

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

ITD   Terms of Sale/Deferred Terms of Sale

Pos: 065   Max: 1
Heading - Optional
Loop: N/A   Elements: 4

User Option (Usage): Used
Purpose: To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD01	336	**Terms Type Code**	O	ID	2/2	Used
		Description: Code identifying type of payment terms				
ITD02	333	**Terms Basis Date Code**	O	ID	1/2	Used
		Description: Code identifying the beginning of the terms period				
ITD06	446	**Terms Net Due Date**	O	DT	8/8	Used
		Description: Date when total invoice amount becomes due expressed in format CCYYMMDD				
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 Name

Pos: 075	**Repeat: 3**
Mandatory	
Loop: N1	**Elements: N/A**

User Option (Usage): Must use

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
075	N1	Name	M	1		Must use
080	N2	Additional Name Information	O	1		Used
090	N3	Address Information	O	2		Must use
100	N4	Geographic Location	O	1		Must use
110	N9	Reference Identification	O	10		Used

N1 **Name**

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Pos: 075   **Max: 1**

Heading - Mandatory

Loop: N1   **Elements: 2**

</div>

User Option (Usage): Must use

Purpose: 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 List Summary (Total Codes: 1312, Included: 4)

<u>Code</u>	<u>Name</u>
BT	Bill-to-Party
CN	Consignee
PR	Payer
SH	Shipper

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N102	93	**Name**	X	AN	1/60	Must use

Description: Free-form name

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.

N2 Additional Name Information

Pos: 080	Max: 1
Heading - Optional	
Loop: N1	Elements: 1

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name**	M	AN	1/60	Must use

Description: Free-form name

N3 Address Information

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

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

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

N4 Geographic Location

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

User Option (Usage): Must use

Purpose: To specify the geographic place of the named party

Element Summary:

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

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

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

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

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1503, Included: 3)

Code	Name
AW	Air Waybill Number
CR	Customer Reference Number
SI	Shipper's Identifying Number for Shipment (SID)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N902	127	**Reference Identification**	X	AN	1/30	Must use

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.

Loop Assigned Number

Pos: 010	Repeat: 1
Mandatory	
Loop: LX	**Elements: N/A**

User Option (Usage): Must use

Purpose: To reference a line number in a transaction set

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	LX	Assigned Number	M	1		Must use
020		Loop N1	O		2	Must use
085	P1	Pick-up	O	1		Used
090	R1	Route Information (Air)	O	1		Must use
100	POD	Proof of Delivery	O	1		Used
110	V9	Event Detail	O	1		Used
125	RMT	Remittance Advice	O	10		Used
140	NTE	Note/Special Instruction	O	10		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

Purpose: To reference a line number in a transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LX01	554	**Assigned Number**	M	N0	1/6	Must use

Description: Number assigned for differentiation within a transaction set

Loop Name

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

User Option (Usage): Must use

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
020	N1	Name	O	1		Must use
040	N3	Address Information	O	2		Must use
050	N4	Geographic Location	O	1		Must use

N1 **Name**

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

User Option (Usage): Must use

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

Element Summary:

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

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1312, Included: 2)

Code	Name
SF	Ship From
ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	Must use

Description: Free-form name

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.

Comments:

1.

N3   Address Information

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

Pos: 040   **Max: 2**

Detail - Optional

Loop: N1   **Elements: 2**

</div>

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

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

N4 Geographic Location

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

User Option (Usage): Must use
Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Must use

> **Description:** Free-form text for city name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N402	156	**State or Province Code**	O	ID	2/2	Recommended

> **Description:** Code (Standard State/Province) as defined by appropriate government agency

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N403	116	**Postal Code**	O	ID	3/15	Recommended

> **Description:** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N404	26	**Country Code**	O	ID	2/3	Must use

> **Description:** Code identifying the country

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.

P1   Pick-up

<table>
<tr><td>Pos: 085</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: LX</td><td>Elements: 3</td></tr>
</table>

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
P101	108	**Pick-up or Delivery Code**	O	ID	1/2	Must use

    Description: Specifies the location or type of pickup or delivery

    Code List Summary (Total Codes: 32, Included: 1)

    Code   **Name**

    SD   Shippers Door

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
P103	374	**Date/Time Qualifier**	M	ID	3/3	Must use

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

    Code List Summary (Total Codes: 1112, Included: 1)

    Code   **Name**

    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: 3**

User Option (Usage): Must use

Purpose: To specify airline and airport routing sequences

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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				

POD Proof of Delivery

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

User Option (Usage): Used

Purpose: To provide proof of delivery

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
POD01	373	**Date**	M	DT	8/8	Must use

> **Description:** Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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: 6**

User Option (Usage): Used

Purpose: To specify information about a specific event

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
V901	304	**Event Code**	M	ID	3/3	Must use
		Description: Code identifying the event about which a report is made				
V902	106	**Event**	O	AN	1/25	Used
		Description: Free-form description of event				
V903	373	**Date**	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				
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				
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.

RMT Remittance Advice

Pos: 125	Max: 10
Detail - Optional	
Loop: LX	Elements: 5

User Option (Usage): Used

Purpose: To indicate the detail on items

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
RMT01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use
		Description: Code qualifying the Reference Identification				
RMT02	127	**Reference Identification**	M	AN	1/30	Must use
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
RMT03	782	**Monetary Amount**	O	R	1/18	Used
		Description: Monetary amount				
RMT06	782	**Monetary Amount**	O	R	1/18	Used
		Description: Monetary amount				
RMT08	782	**Monetary Amount**	O	R	1/18	Used
		Description: Monetary amount				

Semantics:

1. RMT04 is the amount of invoice (including charges, less allowances) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items.
2. RMT05 is the amount upon which the terms discount amount is calculated.
3. RMT06 is the amount of invoice due if paid by terms discount due date (total invoice amount less terms discount amount).
4. RMT07 is the amount of discount taken which may be less than or equal to the amount of discount permitted.
5. RMT08 is any amount being deducted from or added to a particular invoice or line item for reasons other than payment discount (e.g., damaged goods, short shipment, tax, penalty, or late charge payment).

Comments:

1. Parties using this segment should agree on the content of RMT01 and RMT02 prior to initiating transaction communication.
2. RMT03 may also be used to specify the amount paid when different from the amount invoiced.

NTE   Note/Special Instruction

Pos: 140   Max: 10
Detail - Optional
Loop: LX   Elements: 2

User Option (Usage): Used

Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
NTE01	363	**Note Reference Code**	O	ID	3/3	Used

> **Description:** Code identifying the functional area or purpose for which the note applies

Ref	Id	Element Name	Req	Type	Min/Max	Usage
NTE02	352	**Description**	M	AN	1/80	Must use

> **Description:** A free-form description to clarify the related data elements and their content

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.

Loop Description, Marks and Numbers

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

User Option (Usage): Must use

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

Loop Summary:

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

L5	**Description, Marks and Numbers**	**Pos: 150**	**Max: 1**
		Detail - Optional	
		Loop: L5	**Elements: 5**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L501	213	**Lading Line Item Number**	O	N0	1/3	Must use
		Description: Sequential line number for a lading item				
L502	79	**Lading Description**	O	AN	1/50	Must use
		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				
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				

Comments:

1.

L0 Line Item - Quantity and Weight

Pos: 160	**Max: 1**
Detail - Mandatory	
Loop: L5	**Elements: 8**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L001	213	**Lading Line Item Number**	O	N0	1/3	Must use

Description: Sequential line number for a lading item

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L004	81	**Weight**	X	R	1/10	Must use

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L005	187	**Weight Qualifier**	X	ID	1/2	Must use

Description: Code defining the type of weight

Code List Summary (Total Codes: 51, Included: 1)

Code	Name
B	Billed Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L006	183	**Volume**	X	R	1/8	Must use

Description: Value of volumetric measure

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L007	184	**Volume Unit Qualifier**	X	ID	1/1	Recommended

Description: Code identifying the volume unit

Code List Summary (Total Codes: 16, Included: 1)

Code	Name
X	Cubic Meters

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L008	80	**Lading Quantity**	X	N0	1/7	Recommended

Description: Number of units (pieces) of the lading commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L009	211	**Packaging Form Code**	X	ID	3/3	Must use

Description: Code for packaging form of the lading quantity

Code List Summary (Total Codes: 134, Included: 4)

Code	Name
BOX	Box
CTN	Carton
PCS	Pieces
PKG	Package

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L011	188	**Weight Unit Code**	O	ID	1/1	Must use

Description: Code specifying the weight unit

Code List Summary (Total Codes: 8, Included: 1)

Code	Name
K	Kilograms

Syntax Rules:

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

Semantics:

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

L4 Measurement

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

User Option (Usage): Used

Purpose: To describe physical dimensions and quantities

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L403	65	**Height**	M	R	1/8	Must use

> **Description:** Vertical dimension of an object measured when the object is in the upright position

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L404	90	**Measurement Unit Qualifier**	M	ID	1/1	Must use

> **Description:** Code specifying the linear dimensional unit
>
> **All valid standard codes are used. (Total Codes: 4)**

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): Must use
Purpose: To transmit weight information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1001	81	**Weight**	M	R	1/10	Must use

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1002	187	**Weight Qualifier**	M	ID	1/2	Must use

Description: Code defining the type of weight

Code List Summary (Total Codes: 51, Included: 2)

Code	Name
B	Billed Weight
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1003	188	**Weight Unit Code**	O	ID	1/1	Must use

Description: Code specifying the weight unit

Code List Summary (Total Codes: 8, Included: 4)

Code	Name
E	Metric Ton
K	Kilograms
L	Pounds
O	Ounces

SL1 Tariff Reference

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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 List Summary (Total Codes: 66, Included: 6)

Code	Name
3D	Three Day Service
AC	Air Cargo
IE	Expedited Service - Worldwide
SA	Same Day
SC	Second Day Air
ST	Standard Class

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SL103	22	**Commodity Code**	X	AN	1/30	Used

Description: Code describing a commodity or group of commodities

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SL104	320	**Scale**	X	AN	1/10	Used

Description: A carrier-maintained reference used to further identify a schedule of rates within a tariff

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 Rate and Charges

Pos: 175	Repeat: 30
Mandatory	
Loop: L1	**Elements: N/A**

User Option (Usage): Must use

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
175	L1	Rate and Charges	M	1		Must use
180	C3	Currency	O	1		Used

L1   Rate and Charges

Pos: 175   **Max: 1**
Detail - Mandatory
Loop: L1   Elements: 7

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L101	213	**Lading Line Item Number**	O	N0	1/3	Must use

Description: Sequential line number for a lading item

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L102	60	**Freight Rate**	X	R	1/9	Recommended

Description: Rate that applies to the specific commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L104	58	**Charge**	X	N2	1/12	Must use

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L105	191	**Advances**	X	N2	1/9	Used

Description: Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L108	150	**Special Charge or Allowance Code**	O	ID	3/3	Must use

Description: Code identifying type of special charge or allowance

Code List Summary (Total Codes: 1073, Included: 7)

Code	Name
365	Export Declarations - Automated
400	Freight
586	Processing Charge
BLC	Bill of Lading Charge
MFC	Manifest Charge
PUC	Pick-up Charge
TER	Terminal Charge

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L111	16	**Charge Method of Payment**	O	ID	1/1	Used

Description: Code defining method of payment

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L112	276	**Special Charge Description**	O	AN	2/25	Must use

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

Syntax Rules:

1. R040506 - At least one of L104, L105 or L106 is required.

C3 Currency

Pos: 180   Max: 1
Detail - Optional
Loop: L1   Elements: 0

User Option (Usage): Used

Purpose: To specify the currency being used in the transaction set

Semantics:

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

Comments:

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

L3   Total Weight and Charges

<div>
Pos: 015   Max: 1

Summary - Mandatory

Loop: N/A   Elements: 2
</div>

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L305	58	**Charge**	M	N2	1/12	Must use

> **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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L312	188	**Weight Unit Code**	M	ID	1/1	Must use

> **Description:** Code specifying the weight unit

> **Code List Summary** (Total Codes: 8, Included: 1)

> | Code | Name |
> |------|------|
> | K | Kilograms |

Syntax Rules:

1. P0102 - If either L301 or L302 is present, then the other is required.
2. C1201 - If L312 is present, then L301 is required.

Semantics:

1. L305 is the total charges.

SE Transaction Set Trailer

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

Pos: 045   **Max: 1**

Summary - Mandatory

Loop: N/A   **Elements: 2**

</div>

User Option (Usage): Must use

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)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments**	M	N0	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.