110 Air Freight Details and Invoice

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

Version: 1.0

Company:	**JR Simplot**
Publication:	**7/1/2021**
Notes:	**EDI@Simplot.com**

Table of Contents

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.

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
065	ITD	Terms of Sale/Deferred Terms of Sale	M	1			Used
LOOP ID - N1					**3**	**N1/075L**	
110	N9	Reference Identification	M	10			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LX					**9999**		
LOOP ID - N1					**2**	**N2/020L**	
020	N1	Name	M	1			Used
040	N3	Address Information	M	2			Used
050	N4	Geographic Location	M	1			Used
LOOP ID - L5					**4**		
150	L5	Description, Marks and Numbers	M	1			Must use
LOOP ID - L1					**30**		
175	L1	Rate and Charges	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

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.

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

Transaction Set 110 Example: Air w/ Brokerage:

ST*110*0001~
B3**4855113449*6005629388*TP*K*20210120*3665****UPSF~
B3A*SS*1~
ITD*05*3****20210219~
N1*BT*J R SIMPLOT*ZZ*701769481~
N3*6360 S FEDERAL WAY~

```
N4*BOISE*ID*83716*US~
N9*IT*701769481~
N9*AA*3782884432~
N9*AW*6005629388~
N9*MB*GTWG1530769~
N9*EN*SCS40625388~
N9*ED*19-JAN-2021~
N9*3Z*60008431343~
N9*ZZ*PEAK SEASON=N~
LX*1~
N1*SH*SIMPLOT CANADA (II) LIMITED*ZZ*T10461700~
N3*HWY 1 & SIMPLOT RD PO BOX 1180~
N4*PORTAGE LA PRAIRIE*MB*R1N3A4*CA~
N9*SCA*GTW~
N9*6C*Consumption~
N1*CN*LINEAGE LOGISTICS SERVICES HCS*ZZ*T10941207~
N3*5200 11TH AVE S~
N4*GRAND FORKS*ND*58201*US~
N9*BR*0506~
P1*SD*20210118*011*0900~
R1*XXXX**BO9*UPS*BD9~
L5*1*POTATO TATER BARREL*MS*Z~
L0*1***20118*G***1386*PCS**K~
L10*20118*G*K~
L10*0*A1*L~
L10*20118*N*K~
SL1*CB**AIR CUSTOMS BROK***CB~
L1*1***200****586****PROCESSING CHARGE~
C3*USD*0001*USD~
L1*2***925****240****CUSTOMS BROKER FEE~
C3*USD*0001*USD~
L1*3***2490****ADV****CUSTOMS CHARGE~
C3*USD*0001*USD~
L1*4***50****045****ADVANCE FEE~
C3*USD*0001*USD~
L3*20118*B***3665******1386*K**2040900*PS~
SE*43*0001~
```

ST   Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set
All valid standard codes are used. (Total Codes: 298)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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).

User Note 1:

B3 Beginning Segment for Carrier's Invoice

Pos: 020   Max: 1
Heading - Mandatory
Loop: N/A   Elements: 3

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
B302	76	**Invoice Number**	M	AN	1/22	Must use

Description: Identifying number assigned by issuer

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

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.

ITD Terms of Sale/Deferred Terms of Sale

Pos: 065   **Max: 1**
Heading - Mandatory
Loop: N/A   **Elements: 1**

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD06	446	**Terms Net Due Date**	M	DT	8/8	Used

Description: Date when total invoice amount becomes due expressed in format CCYYMMDD

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

<table>
<tr><td>Pos: 075</td><td>Repeat: 3</td></tr>
<tr><td colspan="2" align="center">Mandatory</td></tr>
<tr><td>Loop: N1</td><td>Elements: N/A</td></tr>
</table>

User Option (Usage): Used

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
110	N9	Reference Identification	M	10		Used

N9 Reference Identification

Pos: 110	**Max: 10**
Heading - Mandatory	
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: 1)

Code	Name
IT	Internal Customer Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

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 Assigned Number

Pos: 010	Repeat: 9999
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
020		Loop N1	M		2	Used
150		Loop L5	M		4	Must use

Loop Name

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

User Option (Usage): Used

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	M	1		Used
040	N3	Address Information	M	2		Used
050	N4	Geographic Location	M	1		Used

N1 Name

Pos: 020   Max: 1
Detail - Mandatory
Loop: N1   Elements: 1

User Option (Usage): Used

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
CN	Consignee
SH	Shipper

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: 040	Max: 2
Detail - Mandatory	
Loop: N1	**Elements: 1**

User Option (Usage): Used

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

N4 Geographic Location

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

User Option (Usage): Used
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**	M	AN	2/30	Used

Description: Free-form text for city name

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

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

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

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**	M	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.

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	M	1		Must use
175		Loop L1	O		30	Used

L5 Description, Marks and Numbers

Pos: 150   Max: 1
Detail - Mandatory
Loop: L5   Elements: 2

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	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				

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.

Loop Rate and Charges

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

User Option (Usage): Used

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	O	1		Used

L1 Rate and Charges

Pos: 175	Max: 1
Detail - Optional	
Loop: L1	**Elements: 2**

User Option (Usage): Used

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
L104	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
L112	276	**Special Charge Description**	M	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. 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

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	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

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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.