

PAI SAP Implementation Guide
110 Air Freight Invoice – ANSI Version 3020

ANSI Segment Structure
(110 with one Shipment per Invoice)

Header

B3
B3A
N9
C3 (New and optional)

N1 Name / Address Loop for Shipper and Consignee
N3
N4

P1 (New and needed)

Detail

LX
L5
L0
L10
L1 L1 Base / Ancillary Charge Detail (1 or more occurrences)
SL1

Trailer

L3

Of all the ANSI 110 segments, only those shown above are mapped into SAP.

Change summary

Two new N9 segments specifying the Phillips division and our account with you are needed.

The C3 segment for currency is new and optional; needed only if currency is not U. S. Dollars.

The P1 segment for ship date is new and recommended. It helps insure we are using the prices effective at the time of shipment. If it is not sent the invoice date (B306) will be used.

Commodity code, which is now being, sent in SL103 we would like in L503 (with L504 = Z or T). It would not hurt anything to be in both places.

Our goal is to auto-attest more invoices. To do so we need to be in-synch in terms of the charge types (L108) you are sending in and the priority codes you are using (SL101).

Please check our L108 cost code list for those ones we are auto-attesting. Also please check the priority code SL103 list – if you are sending different codes please let us know and we will add them.

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Mapping**B3 Beginning Segment for Carrier's Invoice**

(PAI Required)

The invoice number and carrier's SCAC code together are critical to forming the key for the entire process.

B301 Transaction type(147)
 Value of '110'.

ID 03/03

PAI Optional.

B302 Invoice Number (76)

AN 01/22

PAI Required

The carrier's invoice ID number is part of the key for SAP. Normally not the Airbill, AWB or HAWB number assigned to the individual shipment with the only possible exception being when there is only one airbill for the invoice.

B303 Shipment ID Number (SID) (145)

AN 01/30

PAI Optional

The airbill number under which the shipment moved for a single shipment invoice. For multiple airbill invoices, this field is not used.

If PAI has supplied the carrier with a Transportation Control Order Number (TCO or TCN), it should be reported in the following N9 segment.

B304 Method of Payment (146)

AN 02/02

PAI Optional

Optional location of this information for single airbill invoices. The values and SAP conversions are:

'PP' for Prepaid (SAP='PPD')

'CC' for Collect (SAP='COL')

'TP' for Third Party (SAP='TPB')

B306 Billing Date (373)

DT 06/06

PAI Required

The date of the invoice, not the shipment date or date of EDI transmission.

B311 SCAC Code (140)

ID 02/04

PAI Required

The carrier's SCAC code. This is key to carrier identification within SAP.

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B3A Invoice Type Segment (PAI Required)

B3A01 Transaction Type Codes (640) ID 02/02 PAI Required
 A single airbill should be designated as 'SS'.

B3A02 Number of Shipments (21) NO 01/05 PAI Required
 The number of airbills that follow in this invoice. This should equal the value of LX01 in the last LX segment, which should be 1 for single shipment invoices..

N9 Reference Number Segment (PAI Required)

In the standard, this segment appears in three places in the transaction. It is required at the line level to identify the airbill for that line and to hopefully provide the associated PAI Purchase Order number for automated access to internal accounting information.

N901 Reference Number Qualifier (128) ID 02/02 PAI Required
 'IT' = Phillips account number with you (crucial for attest process).
 'PE' = Phillips division code; for Alaska this is 'YA'.
 'CR' = Customer Reference or 'PO' = Purchase order. This information is critical for matching and getting accounting charge codes.

N902 Reference Number (127) AN 01/30 PAI Required
 For IT this is the Phillips account number.
 For BF and Phillips Alaska this should be 'YA'.
 (For CR or PO) The PAI Purchase Order number if supplied by the shipper.

C3 Currency Segment (PAI Optional)

C301 Currency Code (100) ID 03/03 PAI Optional
 Supply if the billed currency is other than U. S. Dollars ('USD').
 ISO currency codes should be used.

C302 Amount (21) NO 01/05 PAI Optional
 The amount expressed in the foreign currency.

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There should be two sets of N1 - N4 segments per message; one for the shipper and one for the consignee.

N1 Name Segment

(Required by PAI)

This segment is required to attest using the two ZIP codes. The company name will be used only for exception resolution.

<u>N101 Entity ID Code (98)</u>	ID 02/02	PAI Required
'SH' = Shipper (or PAI Vendor)		
'CN' = Consignee.		

<u>N102 Name (93)</u>	AN 01/35	PAI Required
Company name is freeform and optional.		

N3 Address Information Segment

(PAI Optional)

This information will be used only for exception resolution.

<u>N301 Address (166)</u>	AN 01/35	PAI Optional
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<u>N302 Address (166)</u>	AN 01/35	PAI Optional
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N4 Geographic Location Segment

(Required by PAI)

ZIP Codes (both "from" (Shipper) and "to" (Consignee)) will be used in the rate attesting process. The other data will be used only for exception resolution.

If the country code is not supplied, US is assumed.

<u>N401 City Name (19)</u>	AN 02/19	PAI Required
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<u>N402 State or Province Code (156)</u>	ID 02/02	PAI Required
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<u>N403 Postal (ZIP) Code (116)</u>	ID 04/09	PAI Required
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<u>N404 Country Code (26)</u>	ID 02/02	PAI Optional
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P1 Pick-up

(PAI Suggested)

This information is used to determine effective rates to use in the attest process. If sending P101 (Pick-up code) we recommend 'SD'.

<u>P102 Pick-up Date (109)</u>	N0 06/06	PAI Desired
Pertinent dates for the shipment.		

<u>P103 Date/Time Qualifier (374)</u>	AN 01/50	PAI Desired
011 for shipment date.		

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Detail**LX Assigned Number Segment**

(Required by ANSI)

LX01 Assigned Number (554)

M 01/06

ANSI Required

This should be the sequential line number (1 for single line invoices).

L5 Description, Marks and Numbers

(Required by PAI)

This information is used in receiving.

L501 Lading Line Number (213)

N0 01/03

PAI Desired

The package number.

L502 Lading Description (79)

AN 01/50

PAI Optional

Commodity description.

L503 Commodity Code (22)

ID 01/01

PAI Desired

The commodity code. 'FAK' for freight-all-kinds will be assumed if not supplied.

L504 Commodity Code Qualifier (23)

AN 01/16

PAI Desired

Qualifier indicating the standard used (e.g. STCC) in L503 (value = T) or 'Z' if mutually agreed upon..

L0 Line Item-Quantity and Weight Segment

(Required by PAI)

This data is used in receiving.

L001 Lading Line Number

N2 01/09

PAI Optional

The line number hopefully consistent within its group.

L008 Lading Quantity (80)

R 01/07

PAI Required

The number of packages (piece count) for this airbill (line).

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L10 Weight Segment

(Required by PAI)

Weight information is critical for the rate attest process. The sum of the airbill actual / billable weights should equal the total weight provided in L301.

L1001 Weight (81)

R 01/08

PAI Optional

The airbill billing weight used to confirm the shipment total weight (L301).
 Decimal weight shipments may occur in air express shipments.

L1002 Weight Qualifier (187)

ID 01/02

PAI Optional

SAP normally assumes (billable) Net Weight (N). However if multiple weights are provided (such as gross, tare and net), than only net is used.

L1003 Weight Unit Qualifier (188)

ID 01/01

PAI Optional

Not used in SAP, which assumes pounds (L).

L1 Rate and Charges Segment

(Required by PAI)

We expect that blank or 080 will be the codes (L108) for basic freight with other charges that apply having other applicable ANSI codes.

L101 Lading Line Number

N2 01/09

PAI Optional

The line number hopefully consistent within its group.

L104 Charge (58)

N2 01/09

PAI Required

The amount of the charge.

L108 Special Charge Code (150)

ID 03/03

PAI Required

The code values available for element 150 describe the type of charge in L104.

L112 Description (276)

ID 02/25

PAI Optional

Description of the charge.

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SL1 Tariff Reference

(PAI Optional)

The data in this segment is used for the rate attest process (rate). If this segment is not sent a priority of "S" is assumed.

SL101 Service Level Code (284)

ID 02/02

PAI Required

This field is critical in attesting the air shipment rate.

Note: SL106 also is element 284 but it is not used.

'NF'	=	(SAP='P').
'PR'	=	(SAP='P').
'PS'	=	(SAP='S').
'ZZ'	=	(SAP='S').
'AC'	=	(SAP='E').

SL107 Shipment Payment Method (146)

ID 02/02

PAI Optional

'PP'	for Prepaid	(SAP='PPD')
'CC'	for Collect	(SAP='COL')
'TP'	for Third Party	(SAP='TPB').

Trailer

L3 Total Weight and Charges

(Required by PAI)

The data in this segment is used for the rate attest process (total weight) and to provide a control over other amounts posted to SAP for a freight invoice.

L301 Weight (81)

R 01/08

PAI Optional

The total of all individual airbill weights for this invoice. If line (airbill level) weights are provided they will be in the L004 field.

L302 Weight Qualifier (187)

ID 01/02

PAI Optional

Normally should be 'L' for pounds. It is required if L301 is supplied.

L305 Charge (58)

N2 01/09

PAI Optional

The total of all individual airbill charges for this invoice. If line (airbill level) charges are provided they will be in the L104 field.