

5/16/2002

**PAI SAP Implementation Guide  
210 Trucking Invoice (ANSI Version unchanged)**

**ANSI Segment Structure**

Header

B3

C3 (New and optional)

N9

N1 Name / Address Loop (shipper and consignee)

N3

N4

N7

Detail

LX

N9 (New for priority)

L5

L0

L1 Base Charge / Ancillary Charges (1 or more occurrences)

Trailer

L3

Of all the ANSI 210 segments, only those above are mapped to SAP.

**Change summary:**

Shipment date in B312 for attesting to effective rates.

Two new header N9 segments (for our Account Number with you and for Phillips division).

New N1 Loop option to include the shipment origin. Rate attesting will remain based on Shipper and Consignee zips.

N7 segment added to optionally pass along equipment details.

New N9 in detail for the priority. If not supplied standard priority rating will be used.

L5 segment added to identify the commodity.

There is an opportunity to improve automatic attesting against agreed upon rates. Specifying the commodity in the L5 segment and the line charges in the L1 segment (including UOM (L103) and quantity (L102) when applicable) will be helpful.

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**Mapping**

**B3 Beginning Segment for Carrier's Invoice** (Required by PAI)

B302 Invoice Number (76)                      AN 01/22                      PAI Required  
The carrier's invoice ID number.

B303 Shipment ID Number (SID) (145)    AN 01/30                      PAI Required  
The PAI Vendor's id number. Normally an PAI Vendor's bill of lading number.

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

B304 Method of Payment (146)              ID 02/02                      PAI Optional  
Can be used to create a shipment record if none exists. 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 invoice date, not the shipment date or EDI transmission date.

B311 SCAC Code (140)                      ID 02/04                      PAI Required  
The carrier's SCAC code. Part of the key to the SAP Freight Bill.

B312 Shipment Date (373)                      DT 06/06                      PAI Requested.  
The shipment date used to determine the effective rates. If not supplied the Invoice date (B306) will be used.

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**C3 Currency Segment** (Optional for ANSI / Optional for PAI)

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)                    N0 01/05            PAI Optional  
 The amount expressed in the foreign currency.

**N9 Reference Number** (Optional)

N9 appears both in the header and in the detail.

N901 Reference Number Qualifier (128) ID 02/02            PAI Required  
 'IT'    = PAI account with you (required).  
 'BF'    = hardcode to 'YA' for Phillips Alaska, Inc. This will be different for  
           other divisions of Phillips (required).  
           If this code is not valid in your version, use 'PE'.  
 'CR'    = Customer Reference  
 'PO'    = PO or TCO number.

N902 Reference Number (127)            AN 01/30            PAI Required  
 The Transportation Control Order number supplied by PAI or an PAI  
 purchase order number supplied by the PAI Vendor.

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There will be 2 N1 loops normally. If the origination point is other than the trans-shipment point in the Northwest, it should be reported as a third loop, code 'OR'.

**N1 Name Segment** (Required by PAI)

This is the optional location for the Name and Address segments for the shipper and consignee in an invoice. There should be two sets of N1 - N4 segments per message.

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

PAI uses SH and CN for attesting rates. OR is optional for those shipments originating outside of our agreed upon rating area.

<u>N102 Name (93)</u>	AN 01/35	PAI Required
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**N3 Address Information Segment** (Optional for PAI)

This segment contains useful information that will be used in SAP, but is not required.

<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)

SAP will use the data to generate shipper/consignee records for unmatched invoices and to verify rating information. If 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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**Detail**

**LX Assigned Number Segment** (Required by ANSI)

<u>LX01 Assigned Number (554)</u>	N 01/06	ANSI Required
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This should be the sequential line number.

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**N7 Equipment Details** (Optional for PAI)

This segment is required by PAI only in TL shipment invoices. This information is passed to SAP for exception reporting for unmatched freight invoices.

N701 Equipment Initial (206)                      AN 01/04                      PAI Required

N702 Equipment Number (207)                      AN 01/10                      PAI Required

**N9 Reference Number** (Optional)

N901 Reference Number Qualifier (128) ID 02/02                      PAI Required  
       'PH' = Priority.

Priority is optional; standard ('S') will be assumed if not provided.

N902 Reference Number (127)                      AN 01/30                      PAI Required  
       Values are 'P' for Priority, 'S' and 'E' for economy.

**L5 Description, Marks and Numbers** (Required by PAI)

L501 Lading Line Number (213)                      NO 01/03                      PAI Desired  
       The package number.

L502 Lading Description (79)                      AN 01/16                      PAI Desired

L503 Commodity Code (22)                      NO 01/03                      PAI Desired  
       The commodity code such as 'FAK' for freight-all-kinds.  
       'FAK' will be assumed if not provided.

L504 Commodity Code Description (23) ID 01/01                      PAI Desired  
       Commodity code standard used, preferably the National Motor Freight  
       Commodity code indicated by 'N'. L504 is required if L503 is provided.



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**L1 Rate and Charges Segment**

At least one L1 segment is required for a 210-transaction set. For PAI, **multiple** L1 segments can be posted to the freight bill table row in SAP. The convention among most carriers is that the first charge is the freight charge, followed by a discount on the freight rate, if applicable, and then followed by any other charges that apply.

If the first L1 segment has no value in L108, Special Charge code, it indicates a freight charge rather than an additional special charge.

The SAP system **would like** the rate factor (L102) or basis (L103) supplied by the carrier in the invoice. This will aid in auto-attest. L103 will be defaulted to EA (each) if not supplied.

<u>L104 Charge (58)</u>	N2 01/09	PAI Required
The amount of the freight charge or special charge.		

<u>L108 Special Charge Code (150)</u>	ID 03/03	PAI Optional
The value from the code values available for element 150 that describes the type of charge in L104.		

Basic freight charges can have L108 be blank, or 400.

**L3 Total Weight and Charges** (Required by PAI)

The data in this segment is passed only to provide a control over the amounts posted to the SAP system for a freight invoice. This mandatory segment occurs only once just before the SE segment.

<u>L301 Weight (81)</u>	R 01/08	PAI Optional
The total weight of all L004 fields in the transaction.		

<u>L305 Charge (58)</u>	N2 01/09	PAI Required
The total charges of all L104 fields in the transaction.		