

5/16/2002

PAI SAP Implementation Guide 410 Rail Invoice (ANSI Version unchanged)

ANSI Segment Structure

Header

B3B

C4 (New and optional)

N9

N1 Name / Address Loop

N3

N4

N7

N8

F9

D9

Detail

LX

L5

L0

L1

L7

Trailer

L3

From all the ANSI 410 segments, only those shown above are mapped into SAP.

Major change summary:

It is important to identify the Phillips division (Alaska) and Phillips Alaska account via the N9 segment.

It is important for the auto-attesting of invoices to include the commodity code (and standard used) on the L5 segment.

Currency (C4) and country information (N4, F9, D9) are optional with currency USD and country US assumed if not sent.

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B3B Beginning Segment for Carrier's Invoice(Rail) (Required by PAI)

B3B01 Invoice Number (76) AN 01/22 PAI Required
The carrier's invoice ID number. Normally not the waybill number assigned to the individual shipment.

B3B02 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')

B3B03 Billing Date (373) DT 06/06 PAI Required
The invoice date, not the shipment date or EDI transmission date.

B3B06 SCAC Code (140) ID 02/04 PAI Required
The carrier's SCAC code. Part of the key to the SAP Freight Bill.

B3B08 Shipment ID Number (SID) (145) AN 01/30 PAI Required
The shipper's id number. Normally the shipper's bill of lading number. Some railroads may use the N9 segment for BOL.

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

C4 Alternative Payment Segment (Optional for ANSI / Optional for PAI)

C401 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.

C402 Amount (21) NO 01/05 PAI Optional
The amount expressed in the foreign currency.

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N9 Reference Number (Optional)

The TCO number is not used for LTL shipments. Instead, some carriers will provide the PAI purchase order number obtained from the PAI vendor. For Truck Load shipments, origin carriers who are also the billing carrier should be able to reference a TCO number supplied by PAI.

N901 Reference Number Qualifier (128) ID 02/02 PAI Required

'IT' = Account

'BF' = 'YA' indicating Phillips Alaska division.

If 'BF' is not available in your version, please use 'PE'.

'BM' = Carrier's Bill of Lading or 'TC' = TCO number.

N902 Reference Number (127) AN 01/30 PAI Required

The number defined by N901.

N7 Equipment Details Segment (Required by PAI)

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

N8 Waybill Reference Segment (Required by PAI)

This information identifies the waybill.

The waybill date is used to determine the effective rates.

N801 Waybill Number (186) NO 01/06 PAI Required

N802 (Waybill) Date (373) DT 06/06 PAI Required

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F9 Origin Station Segment (Required by PAI)

This information is passed to SAP for exception reporting for unmatched freight invoices. This segment along with the D9 Destination Station defines the line haul portion of the rail car movement.

<u>F901 Freight Station (573)</u>	ID 01/05	PAI Required
The Freight Station Accounting Code assigned by the American Association of Railroads (AAR) to this station. Railroad rates are based on the commodity, route and distance between Freight Stations. Country is optional, US will be assumed.		

<u>F902 City (19)</u>	AN 02/30	PAI Required
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<u>F903 State or Province Code (156)</u>	ID 02/02	PAI Required
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<u>F904 Country (26)</u>	ID 02/02	PAI Optional
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D9 Destination Station Segment (Required by PAI)

This information is passed to SAP for exception reporting for unmatched freight invoices. This segment along with F9 Origin Station defines the line haul portion of the rail car movement. Country is optional, US will be assumed.

<u>D901 Freight Station (573)</u>	ID 01/05	PAI Required
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<u>D902 City (19)</u>	AN 02/30	PAI Required
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<u>D903 State or Province Code (156)</u>	ID 02/02	PAI Required
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<u>D904 Country Code (26)</u>	ID 02/02	PAI Optional
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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)		
'CN' = Consignee.		

<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.

<u>N401 City Name (19)</u>	AN 01/19	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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If no country is supplied, US will be assumed.

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L5 Description, Marks and Numbers (Required by PAI)

This information is passed to SAP for exception reporting. Railroads use repeating L5 segments for the text description of a commodity being shipped. For SAP, only the first L5 (with description) needs to be mapped.

<u>L501 Lading Line Number (213)</u> The package number.	N0 01/03	PAI Desired
<u>L502 Lading Description (79)</u>	AN 01/50	PAI Desired
<u>L503 Commodity Code (22)</u> The commodity code. If not supplied 'FAK' freight-all-kinds assumed.	N0 01/16	PAI Desired
<u>L504 Commodity Code Qualifier (23)</u> The commodity code standard use. The STCC codes are preferred for specifying commodities shipped by Rail (value = 'T'). Required if L503 supplied.	ID 01/01	PAI Desired

L0 Line Item-Quantity and Weight Segment (Required by PAI)

Carriers normally include this information with their invoices.

<u>L002 Billed/Rate as Quantity (220)</u> The billing weight of the shipment.	R 01/11	PAI Required
<u>L003 Quantity Billed/Rated (Code) (221)</u> 'LC' = indicates that L002 is a per hundredweight quantity.	ID 02/02	PAI Optional
<u>L004 Weight (81)</u> The shipment weight.	R 01/08	PAI Optional
<u>L005 Weight Qualifier (187)</u> Standards require this field if L004 is used. The data is not used in SAP, which assumes gross weight (G).	ID 01/02	PAI Optional
<u>L008 Lading Quantity (80)</u> The number of packages in the shipment.	R 01/07	PAI Required
<u>L011 Weight Unit Qualifier (188)</u> Standards require this field if L004 is used. The data is not used in SAP, which assumes pounds (L).	ID 01/01	PAI Optional

