

**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**ANSI Segment Structure**

Header

BEG  
PER  
FOB  
ITD  
DTM  
TD5

N9\*

MTX\* Header notes loop (replaces NTE segment)

N1 Name / Address Loop

N2

N3

N4

PER

Detail

PO1

PID Part Description Loop

REF\*

FOB

DTM

TD5

MTX\* (replaces NTE segment)

N1 Name / Address Loop

N2

N3

N4

PER

Trailer

CTT

AMT

\* NEW SEGMENTS

Of all the ANSI 850 segments, only those shown above are mapped from SAP and will be transmitted by PAI.

**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**HEADER MAPPING**

<b><u>BEG Beginning Segment for Purchase Order</u></b>	<b>Required for ANSI and PAI</b>	
<u>BEG01 Transaction Set Purpose Code (353)</u> Code indicating transaction type. '00' = Original	ID 02/02	ANSI Required
<u>BEG02 P. O. Type Code (76)</u> Further indicate PO type. 'NE' = New order 'CF' = Confirmation Are the two transmitted values.	ID 02/02	ANSI Required
<u>BEG03 Purchase Order Number (324)</u> The purchase order number. SAP length is 10 bytes. Purchase order numbers all begin with '45000'.	AN 01/22	PAI Required
** PO Release Numbers are no longer used**		
<u>BEG05 Purchase Order Date (373)</u> Purchase order date – CCYYMMDD The date the purchase order is issued.	DT 08/08	PAI Required
<u>BEG08 Invoice Type Code (1019)</u> This will be 'INR' for Orders not requiring an invoice. Participants in our ERS (Evaluated Receipts Settlement) program will receive this code.	ID 03/03	PAI Required

**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

<b><u>PER Administrative Communications Segment</u></b>		<b>Required by PAI</b>
<u>PER01 Contact function code (366)</u> Code indicating the type of contact. 'BD' = Buyer name.	ID 02/02	PAI Required
<u>PER02 Name (93)</u> The buyer's name.	AN 01/35	PAI Required
<u>PER03 Communications qualifier (365)</u> 'TE' = Telephone number.	ID 02/02	PAI Optional
<u>PER04 Communication value (364)</u> Buyer's telephone number.	AN 07/21	PAI Optional
<u>PER05 Communications qualifier (365)</u> 'FX' = FAX number.	ID 02/02	PAI Optional
<u>PER06 Communication value (364)</u> Buyer's FAX number.	AN 07/21	PAI Optional

**FOB Related Instructions Segment** **PAI Optional**

In the transaction, this segment can appear at the header and line. FOB at the header applies to all lines without their own FOB.

<u>FOB01 Shipment method of payment (146)</u> 'CC' = Collect 'DF' = Defined by Buyer 'NC' = Service Freight, No Charge 'PC' = Prepay but Charged to Customer 'PP' = Prepaid (by seller) 'TP' = Third Party	ID 02/02	PAI Required
<u>FOB06 Location qualifier (309)</u> 'DE' = Destination 'FV' = Free Alongside Vessel (FOB Point) 'OA' = Origin (After Loading on Equipment) 'OR' = Origin 'OV' = On Vessel (FOB Point) 'PB' = Point of Discharge 'PE' = Port of entry 'ZZ' = Mutually Defined – Information contained in Description	ID 01/02	PAI Required
<u>FOB07 Description (352)</u> Destination or Origin depending on responsibility for the payment.	AN 01/80	PAI Optional

**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

<b><u>ITD Terms of Sale Segment</u></b>		<b>PAI Optional</b>
<u>ITD01 Terms Type Code (336)</u> '01' = Basic	ID 02/02	PAI Optional
<u>ITD02 Terms Basic Date Code (333)</u> '3' = Invoice Date	ID 01/02	PAI Optional
<u>ITD03 Terms Discount Percent (338)</u> Terms Discount Percentage	R 01/06	PAI Optional
<u>ITD05 Terms Discount Days Due (351)</u> 'PP' = Prepaid	ID 01/03	PAI Optional
<u>ITD07 Terms Net Days (386)</u> Terms Net Days	AN 01/03	PAI Optional

**DTM Date / Time Reference Segment** **PAI Optional**

In the transaction, this segment can appear at the header and at the line. Delivery date at the header applies to all lines without their own delivery date.

<u>DTM01 Date / Time qualifier (374)</u> '074' = Delivery date	ID 03/03	PAI Required
<u>DTM02 Date (373)</u> Delivery date – CCYYMMDD This is the date the materials are expected to be delivered to PAI's Facility.	DT 08/08	PAI Required

**TD5 Carrier Details Segment** **PAI Optional**

In the transaction, this segment can appear at the header and at the line. Transportation method at the header applies to all lines without their own carrier.

<u>TD504 Transportation Method Type Code (91)</u> 'M' = Motor (Truck) 'R' = Rail 'AF' = Air Freight 'ZZ' = Mutually Defined These are possible Valid ANSI codes	ID 01/02	PAI Optional
<u>TD505 Routing (387)</u> Carrier name. May contain the PO Header Delivery text. With qualifier ZZ, will contain Drop Point Information.	AN 01/35	PAI Optional

**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**N9 Reference Segment**

**ANSI Required**

In the standard, this segment is required to allow header text. Contents of this segment can be ignored.

<u>N901 Reference number qualifier (91)</u> 'L1' =Notes	ID 01/02	ANSI Required
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<u>N902 Reference number (387)</u> 'NOTES'.	AN 01/35	ANSI Required
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**MTX Message Segment**

**PAI Optional**

In the transaction this segment can appear at the header and at the line. This segment contains header information that the buyer wants to communicate to the vendor. This should not be construed to override message information at the line but should be considered in conjunction with it.

<u>MTX01 Message qualifier (91)</u> 'GEN' = Header level text	ID 03/03	PAI Optional
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<u>MTX02 Message (387)</u> Header text. The following types of text may appear here: Pricing Types, Deadlines, Terms of Delivery, Shipping Instructions, Terms of Payment, Warranties, Penalty, Guarantee, Contract Riders, Asset, and/or Other Contractual Stipulations.	AN 01/4096	PAI Optional
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**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**N1 Name Segment**

**PAI Required**

Bill-to should only occur at the header. Ship-to may occur at the header and at the line. Ship-to at the header applies to lines without their own.

<u>N101 Entity ID Code (98)</u>	ID 02/02	PAI Required
'ST' = Ship to		
'BT' = Bill to.		

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

<u>N103 Identifier Code Qualifier (66)</u>	ID 01/02	PAI Optional
'9' = DUNS + 4		

<u>N104 Identifier Code (67)</u>	ID 02/17	PAI Optional
DUNS + 4 value.		

**N2 Additional Name Segment**

**PAI Optional**

<u>N201 Name (93)</u>	AN 01/35	PAI Optional
Name information continued as needed.		

<u>N202 Name (93)</u>	AN 01/35	PAI Optional
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**N3 Address Information Segment**

**PAI Optional**

<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**

**PAI Required**

If country code is not supplied, please assume US.

<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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**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**PER Administrative Communications Segment**

**Optional by PAI**

This is the overall order contact.

<u>PER01 Contact function code (366)</u> Code indicating the type of contact. 'OC' = Order Contact.	ID 02/02	PAI Optional
<u>PER02 Name (93)</u> The name.	AN 01/35	PAI Optional
<u>PER03 Communications qualifier (365)</u> 'TE' = Telephone number.	ID 02/02	PAI Optional
<u>PER04 Communication value (364)</u> Buyer's telephone number.	AN 07/21	PAI Optional
<u>PER05 Communications qualifier (365)</u> 'FX' = FAX number.	ID 02/02	PAI Optional
<u>PER06 Communication value (364)</u> Buyer's FAX number.	AN 07/21	PAI Optional

**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**DETAIL MAPPING**

<b><u>PO1 Purchase Order Baseline Item Segment</u></b>		<b>Required by ANSI</b>
<u>PO101 Assigned identification (350)</u> PO Line number. SAP Length = 5 bytes, e.g. 00001.	AN 01/20	PAI Required
<u>PO102 Quantity ordered (330)</u> Order quantity	R 01/15	PAI Required
<u>PO103 Unit of measure (355)</u> Unit of measure.	ID 02/02	PAI Required
<u>PO104 Unit price (212)</u> Unit price	R 01/17	PAI Required
<u>PO106 Product code (235)</u> 'BP' = Buyer's Catalog Number	ID 02/02	PAI Required
<u>PO107 Product (234)</u> SAP Length = 8 bytes. Phillip's SAP material number, or if no material number the word PHILLIPS will appear.	AN 01/48	PAI Required
<u>PO108 Product Code (235)</u> 'VP' = Vendor's Catalog Number	ID 02/02	PAI Optional
<u>PO109 Product (234)</u> Vendor's material number	AN 01/48	PAI Optional
 <b><u>PID Product / Item Description Segment</u></b>		<b>PAI Required</b>
<u>PID01 Item description type (349)</u> 'F' = Free form.	ID 01/01	PAI Required
<u>PID05 Description (352)</u> Text describing the part. The following types of text may appear here: Item Text, Info Record PO Text, Material PO Text, and/or Material Basic Data.	AN 01/80	PAI Required

**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**REF Reference Number Segment**

**PAI Optional**

In the standard, this segment can appear multiple times.

<u>REF01 Reference Number Qualifier (128)</u>	ID 02/02	PAI Required
<ul style="list-style-type: none"> <li>'91' = RFE</li> <li>'80' = Cost Center</li> <li>'79' = Project Work Order</li> <li>'P4' = Project number</li> <li>'WO' = Work Order Number</li> <li>'WS' = Warehouse Storage Location</li> <li>'AH' = Outline agreement number (replaces the Blanket Order number)</li> <li>'C7' = Outline agreement line number (replaces the BO line number)</li> <li>'CI' = Consignment</li> </ul>		

<u>REF02 Reference Number (127)</u>	AN 01/30	PAI Required
The appropriate reference number.		

<u>REF03 Reference Number Description (352)</u>	AN 01/80	PAI Optional
The relevant reference number description.		

**FOB Related Instructions Segment**

**PAI Optional**

In the transaction, this segment can appear at the header and line. FOB at the line overrides FOB at the header. Note the extended list of terms.

<u>FOB01 Shipment method of payment (146)</u>	ID 02/02	PAI Required
<ul style="list-style-type: none"> <li>'CC' = Collect</li> <li>'DF' = Defined by Buyer</li> <li>'NC' = Service Freight, No Charge</li> <li>'PC' = Prepay but Charged to Customer</li> <li>'PP' = Prepaid (by seller)</li> <li>'TP' = Third Party</li> </ul>		

<u>FOB06 Location qualifier (309)</u>	ID 01/02	PAI Required
<ul style="list-style-type: none"> <li>'DE' = Destination</li> <li>'FV' = Free Alongside Vessel (FOB Point)</li> <li>'OA' = Origin (After Loading on Equipment)</li> <li>'OR' = Origin</li> <li>'OV' = On Vessel (FOB Point)</li> <li>'PB' = Point of Discharge</li> <li>'PE' = Port of entry</li> <li>'ZZ' = Mutually Defined – Information contained in Description</li> </ul>		

<u>FOB07 Description (352)</u>	AN 01/80	PAI Optional
Destination or Origin text.		

**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**DTM Date / Time Reference Segment**

**PAI Optional**

In the transaction, this segment can appear at the header and at the line. Delivery date at the line overrides delivery date at the header.

**DTM01 Date / Time qualifier (374)**

ID 03/03

PAI Required

'074' = Delivery date

**DTM02 Date (373)**

DT 08/08

PAI Required

Delivery date – CCYYMMDD

This is the date the materials are expected to be delivered to PAI's facility.

**TD5 Carrier Details Segment**

**PAI Optional**

In the transaction, this segment can appear at the header and at the line. Transportation method at the line overrides transportation method at the header.

**TD504 Transportation Method Type Code (91)**

ID 01/02

PAI Optional

'M' = Motor (Truck)

'R' = Rail

'AF' = Air Freight

'ZZ' = Mutually Defined

These are possible valid ANSI codes

**TD505 Routing (387)**

AN 01/35

PAI Optional

Carrier name. With qualifier ZZ, will contain Drop Point Information.

**MTX Message Segment**

**PAI Optional**

In the transaction, this segment can appear at the header and at the line. Here it contains specific purchase order line information that the buyer wants to communicate to the vendor. It is to be used in conjunction with the header level text.

**MTX01 Message qualifier (91)**

ID 03/03

PAI Required

'LIN' = Line level text

**MTX02 Message (387)**

AN 01/4096

PAI Required

PO Line text. The following types of text may appear here: Delivery Text and/or PM Operation Text.

**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**N1 Name Segment**

**PAI Optional**

Ship-to at the line overrides ship-to at the header.

<u>N101 Entity ID Code (98)</u>	ID 02/02	PAI Required
'ST' = Ship to		

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

<u>N103 Identifier Code Qualifier (66)</u>	ID 01/02	PAI Optional
'9' = DUNS + 4		

<u>N104 Identifier Code (67)</u>	ID 02/17	PAI Optional
DUNS + 4 value.		

**N2 Additional Name Segment**

**PAI Optional**

<u>N201 Name (93)</u>	AN 01/35	PAI Optional
Name information continued as needed.		

<u>N202 Name (93)</u>	AN 01/35	PAI Optional
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**N3 Address Information Segment**

**PAI Optional**

<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**

**PAI Optional**

If the country is not supplied, please assume US.

<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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**Phillips Alaska Inc. (PAI) SAP EDI Implementation Guide  
850 Purchase Order**

**PER Administrative Communications Segment**

**Optional by PAI**

This will only be supplied if the order-contact for the line differs from the header order-contact. Most likely, this will be phone number only.

<u>PER01 Contact function code (366)</u> Code indicating the type of contact. 'OC' = Order Contact.	ID 02/02	PAI Optional
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<u>PER02 Name (93)</u> The order contact name.	AN 01/35	PAI Optional
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<u>PER03 Communications qualifier (365)</u> 'TE' = Telephone number.	ID 02/02	PAI Optional
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<u>PER04 Communication value (364)</u> Buyer's telephone number.	AN 07/21	PAI Optional
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<u>PER05 Communications qualifier (365)</u> 'FX' = FAX number.	ID 02/02	PAI Optional
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<u>PER06 Communication value (364)</u> Buyer's FAX number.	AN 07/21	PAI Optional
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**TRAILER MAPPING**

**CTT Transaction Totals**

**PAI Required**

<u>CTT01 Number of Line Items (354)</u> Number of line items (number of PO1 segments).	N0 01/06	PAI Required
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**AMT Monetary Amount**

**PAI Required**

<u>AMT01 Amount qualifier (522)</u> 'TT' = Total transaction amount	ID 01/02	PAI Required
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<u>AMT02 Monetary Amount (782)</u> Total dollar value of the PO.	R 01/15	PAI Optional
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