

4/25/2002

**PAI SAP Implementation Guide
811 Services / Equipment / Material Invoice**

ANSI Segment Structure

Header (one structure per invoice)

BIG
NTE
CUR (New)
REF

Detail (one to many structures per invoice)

HL

NM1 Name loop (New)
REF

Sub-Detail (one to many structures per Detail)

HL

IT1 Baseline Item Data Loop
SI
PID
REF
DTM
MSG

ITA Service Loop (Distribution lines – can be multiple per sub-detail structure)

Trailer (One structure per invoice)

TDS

ITA (New) Discount / retention / tax charge loop – can be multiple per TDS)

Of all the ANSI 811 segments, only those above are mapped into SAP.

Mapping**Header Information****BIG Beginning Segment for Invoice** (Required for PAI)

BIG01 Invoice Date (245) DT 08/08 ANSI Required
 The date the invoice is transmitted.

BIG02 Invoice Number (76) AN 01/22 ANSI Required
 Contractor's invoice number which should be unique to PAI.

NTE Notes Segment (Optional for PAI)

If NTE01 is supplied, then NTE02 must be.

NTE01 Notes qualifier (363) ID 03/03 PAI Optional
 'PAY' = Freeform payables text.

NTE02 Text (3) AN 01/60 PAI Optional
 Header freeform text.

CUR Currency Segment (Optional for PAI)

If this segment is not supplied, the invoice currency will be assumed to be USD.
 If CUR01 is supplied, then CUR02 must be.

CUR01 Currency qualifier (98) ID 02/02 PAI Optional
 'VN' = Vendors currency.

CUR02 Currency (100) ID 03/03 PAI Optional
 ISO Currency code (e.g. USD = U. S. Dollars)

PAI SAP Implementation Guide
811 Services / Equipment / Material Invoice

REF Reference Number Segment

(PAI Required)

In the standard, this segment appears in three places in the transaction. It is required at the header to identify the PAI contract, Phillips division and original invoice number for credit invoices.

REF01 Reference Number Qualifier (128) ID 02/02 PAI Required

'CT' = Contract or Purchase Order Number as supplied by PAI - required.

'BF' = Phillips company (division) code as supplied by PAI – required.

'OI' = Original invoice number – required for credit invoices.

REF02 Reference Number (127) AN 01/30 PAI Required

The appropriate reference number. Please include no dashes or special characters in the contract / purchase order number.

Detail Information (describes laborer, equipment operator or material user).**HL Reference Segment**

(Required for PAI)

Specifies the invoice level (detail or sub-detail).

PAI requires HL03 to be sent as '1' for detail level information.

ANSI requires HL01 to sent, it can be a sequential number or hard-coded.

HL01 Hierarchical ID number (628) AN 01/12 ANSI mandatory.

Can be hardcoded to a '1' or a counter – not used by Phillips.

HL02 Hierarchical Parent ID (734) AN 01/12 PAI Optional

'0' can indicate that there is no parent.

HL03 Hierarchical Level Code (735) AN 01/02 PAI Required

'1' indicates detail level.

HL04 Hierarchical Child Code (736) ID 01/01 PAI Optional

'1' indicates that there are lower level (sub-detail) records. Not used.

NM1 Name Segment

(PAI Required)

This segment supplies invoice type and ,laborer, operator or material user information.

NM101 Invoice ID Code (98) ID 02/03 PAI Required

'13' = Labor charge for a person (goes with NM108 = '34')

'PZ' = Equipment charge by the operator (goes with NM108 = '94')

'VN' = Material charge for the consumer (goes with NM108 = 'PI')

NM102 Invoice ID Qualifier (1065) AN 01/01 PAI Required

Indicates the type of charge.

'1' = Person

'2' = Non-person (e.g. material).

PAI SAP Implementation Guide
811 Services / Equipment / Material Invoice

<u>NM103 Contractors last name (1035)</u>	AN 01/35	PAI Required
<u>NM104 First Name (1036)</u>	AN 01/35	PAI Required
<u>NM105 Middle Initial (1037)</u>	AN 01/25	PAI Required
<u>NM108 Unit Code qualifier (66)</u>	ID 01/02	PAI Required
'34' = Labor charge for a person '94' = Equipment charge by the operator 'PI' = Material charge for the consumer		
<u>NM109 Identification Code (67)</u>	AN 02/80	PAI Required
Contractor's Employee ID number – assigned uniquely for PAI.		

REF Reference Number Segment (Optional / Required)
 Detail level reference information.

<u>REF01 Reference Number Qualifier (128)</u>	ID 02/02	PAI Required
'C7' = Document Line Number (required, must be unique within the invoice). 'SV' = Service Number (SAP code for the service, required) 'PE' = SAP Plant code (SAP code for where the work occurred, required)		
<u>REF02 Reference Number (127)</u>	AN 01/30	PAI Required
The appropriate reference number.		

Sub-Detail Level

HL Reference Segment (PAI Required)
 Specifies the invoice level (detail or sub-detail).
 PAI requires HL03 to be sent as '4' for sub-detail level information.
 ANSI requires HL01 to be sent, it can be a sequential number or hard-coded.

HL01 Hierarchical ID number (628)	AN 01/12	ANSI mandatory.
Can be hard-coded to '1' or a counter – not used by Phillips.		
HL02 Hierarchical Parent ID (734)	AN 01/12	PAI Optional
Can point to the HL01 value of the parent (detail).		
HL03 Hierarchical Level Code (735)	AN 01/02	PAI Required
'4' indicates sub-detail level.		
HL04 Hierarchical Child Code (736)	ID 01/01	PAI Optional
'0' indicates that there are no lower level records. Not used.		

PAI SAP Implementation Guide
811 Services / Equipment / Material Invoice

IT1 Name Segment (Required by PAI)

<u>IT101 Assigned identifier (350)</u> Sub-detail Line number of the invoice (e.g. 000001). Must be unique within the invoice.	AN 01/6	PAI Required
<u>IT102 Quantity (358)</u> Quantity (e.g. number of hours)	R 01/10	PAI Required
<u>IT103 Unit-of-measure (355)</u> Unit-of-measure (e.g. HR = hours)	ID 02/02	PAI Optional
<u>IT104 Unit-price (212)</u> Rate (e.g. price per unit-of-measure (e.g. hour)).	R 01/14	PAI Optional

SI Name Segment

(PAI Optional)

SI01, SI02 and SI03 are required by ANSI.

<u>SI01 Agency Qualifier (559)</u> 'ZZ' = mutually defined to mean compensation type.	ID 02/02	PAI Required
<u>SI02 Service characteristic qualifier (1000)</u> Code to clarify the type of labor or equipment usage (e.g. ST = straight time).	ID 02/02	PAI Required
<u>SI03 Product Service ID (234)</u> Hard Code to 'TYPE'. Not used.	AN 01/48	PAI Required

REF Reference Number Segment

PAI Required

<u>REF01 Reference Number Qualifier (128)</u> 'K0' = Approver code – required to route to the approver. 'WN' = Work Location 'DJ' = Time Ticket Number 'ACE' = Service Request / Activity code 'RP' = Rate Paid 'OI' = Original Invoice Line Number – required for credit invoices. 'SO' = Sub-operation '79' = Cost Object 'A3' = Network Activity Code (Cost Object and Network Activity Code should be blank if distribution lines exist).	ID 02/02	PAI Required
---	----------	--------------

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

PAI SAP Implementation Guide
811 Services / Equipment / Material Invoice

<u>PID Product / Item Description Segment</u>		(PAI Optional)
<u>PID01 Item description type (349)</u>	ID 01/01	PAI Optional
'F' = Free form.		
<u>PID05 Description (352)</u>	AN 01/80	ANSI Required
Text describing work, equipment or charge.		
<u>DTM Date / Time Reference Segment</u>		(PAI Required)
Defining the beginning and end of the service period. If DTM01 is sent, DTM02 is required.		
<u>DTM01 Date / Time qualifier (374)</u>	ID 03/03	PAI Required
'150' = Start of work period '151' = End of work period.		
<u>DTM02 Date (373)</u>	DT 08/08	PAI Required
Work period start or end date – CCYYMMDD		
<u>MSG Message Segment</u>		(PAI Optional)
Work description text.		
<u>MSG01 Message text (933)</u>	AN 01/264	PAI Optional
Sub-detail level free form text describing work performed.		
<u>ITA Monetary Amount</u>		(Required by PAI)
This segment is intended to hold charges expressed in rate X quantity. Normally employee / contractor time or equipment usage.		
<u>ITA01 Allowance or Charge qualifier (249)</u>	ID 01/01	PAI Required
'A' for a credit (allowance). 'C' for a charge.		
<u>ITA02 Agency Qualifier (559)</u>	ID 02/02	ANSI Required
'ZZ' – required if ITA 15 supplied.		
<u>ITA04 Method of Handling Qualifier (331)</u>	ID 02/02	ANSI Required
'ZZ'. – always required.		
<u>ITA06 Rate (359)</u>	R 01/09	PAI Optional
Rate		
<u>ITA10 Quantity (380)</u>	R 01/15	PAI Optional

PAI SAP Implementation Guide
811 Services / Equipment / Material Invoice

Dollar value of the credit (with a negative) or a charge.

<u>ITA13 Allowance or charge description (352)</u> Description of the credit or charge.	AN 01/80	PAI Optional
<u>ITA15 Source sub-qualifier (822)</u> Network code.	AN 01/15	PAI Optional

Trailer Information

TDS Transaction Totals

(PAI Required)

This should contain the total dollar amount of the invoice.

<u>TDS01 Total invoice dollars (361)</u> Total dollar amount.	N2 01/10	PAI Required
--	----------	--------------

ITA Monetary Amount

(PAI Required)

This segment is intended to hold credits (discounts or retention) or charges (taxes) that apply to the entire invoice. There can be one or more per TDS segment.

<u>ITA01 Allowance or Charge qualifier (240)</u> 'A' for a credit (allowance). 'C' for a charge.	ID 01/01	PAI Required
<u>ITA04 Method of handling code (331)</u> 'ZZ'. Always required.	ID 02/02	ANSI Required
<u>ITA07 Allowance or charge total (360)</u> Dollar value of the credit (with a negative) or a charge.	N2 01/09	PAI Optional
<u>ITA13 Allowance or charge description (352)</u> Description of the credit or charge.	AN 01/80	PAI Optional