ePaperless Office Integration Guide

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Table of Contents

Overview

Integrating your software to ePaperless Office involves sending text files to our ePaperless Office server.

All files are to be sent using Web Services which should be available to you in any programming language you want to use.

The two types of files that you need to send are: Statement Files and Invoice Files. You will find examples of each in this documentation, and you can request more samples if you need them.

File Format and Transmission

All data is communicated to ePaperless Office using simple text files. Each text file is to have a header which will declare the type of file being transmitted followed by a list of data lines and then a footer.

Each data line is a tab-delimited list of values with the first element being the type of data line it is. All data files you will create will be transmitted to us by the Web Service:

https://epaperlessoffice.epartconnection.com/OfficeWebService1/Service1.asmx

using a method called EpartOfficeMessage.

The EpartOfficeMessage function accepts one argument, the text of your data file, and has one return value. The return value will contain the string **"OK"** if successful or will start a string with **"FAIL"** if there is an error.

If there is an error, you may get some help text after the word **"FAIL"**.

Some reasons you may get an error:

- Your file is not recognized as a valid ePart message file.
- Your account isn't set up correctly.
- There is a programming error.

All lines are tab-delimited unless specified otherwise.

Invoice Files

An ePaperless Office invoice file should be created at the same time your system finalizes an invoice that needs to be searchable on ePaperless Office. It is very important that each invoice file make it to ePartConnection so that your customer can see all of their activity and when you later send statement files, the statement will show all of the correct invoice data detail lines from the statement.

If you want to create a way to verify that we have received all the invoices you sent, you can use the CGI:

http://eoffice.epartconnection.com/get_invoices.aspx?s=ZZZ (where ZZZ is your ePart Store ID)

The CGI will return a list of all invoices and the customer number on each of those invoices which are being stored on ePaperless Office for your ePart Store ID.

Below is an example of a properly formatted invoice file. Each line will be explained below.

```
ACS
ACCOUNT testal store1
TYPE INVOICE
START
INVHEAD 6 1 dat 03-19-07 08:33A 03-19-07    A
   A      Cash 6.5 0.0 0.5 TRUE
BILLTO JOE'S AUTO REPAIR 1234 South Main St. Buena Park, CA
90621
SHIPTO JOE'S AUTO REPAIR \*
INVITEM 6 1 BCA A1 BEARING PART 1 1 SALE
    3.35 6.0 7.44 0.0 0.0 N Y BEARING 1
INVITEM 6 2 DEL 1 PART 1 1 SALE
    0.0 0.0 0.0 0.0 0.0 N Y 1
INVEND
END
```

Invoice File Header

Every invoice file must start with the following header. The ACCOUNT and TYPE fields need to be separated by tabs.

```
ACS
ACCOUNT ePartStoreId LocationIdentifier
TYPE INVOICE
START
```

The line starting with ACCOUNT will contain your ePart Store ID and a Location ID which you can fill in to represent which store this invoice came from if you have multiple stores.

Invoice Data Lines

After the Invoice File Header, include the following data before sending a footer. All items need to be

tab-delimited.

INVHEAD line

BILLTO line

SHIPTO line

one or more INVITEM lines

INVHEAD Data Line Format

The INVHEAD line is to be tab-delimited and contain the following information:

#	Name	Type	Values	Description
1	Record Type	T	INVHEAD	Will always be "INVHEAD"
2	Invoice Number	T		
3	Customer Number	T		
4	Location	T		
5	Date	T	MM-DD-YY	
6	Time	T	HH:MM[A|P]	Example: 08:35A for 8:35am
7	Due Date	T	MM-DD-YY	Optional
8	PO Number	T		
9	Reference	T		
10	Counterman1	T		Counterman that created the invoice
11	Counterman2	T		Counterman that finished the invoice
12	Salesman	T		
13	How Paid	T	[CASH|CHARGE|COD]	Using anything other than CASH, CHARGE, or COD may change how your invoice is interpreted in the eDelivery Tracking System
14	Invoice Total	D		2 decimals
15	Subtotal Core	D		2 decimals
16	Subtotal Tax	D		2 decimals
17	Delivery	B	[TRUE|FALSE]	If using the eDelivery Tracking System, setting this field to TRUE will flag this invoice as a trackable delivery.
18	Status	T	CANCELED	Setting this field to CANCELED notifies our system that this invoice has been voided or canceled on your management system.
19	EpartOrderId	D		This should be the id of the Epart order id (if the order is from Epart and you can have the order id available).

#	Name	Type	Values	Description
20	Delivery Priority	I		This should be 0-9 for the order's delivery priority. Set it to -1 to use the default priority.
21	Delete Invoice Flag	B	[TRUE|FALSE]	Set this to TRUE to have ePart delete any copies of the invoice from eOffice
22	Latitude	T		Ignored
23	Longitude	T		Ignored
24	Paid	B	[TRUE|FALSE]	
25	PickTicket	T		
26	PickDate	T	MM-DD-YY	
27	PickTime	T	HH:MM[A|P]	
28	EDI	B	[TRUE|FALSE]	
29	EDIType	T	"810" or "856"	Spans appropriate routine in EDI pipeline
30	StockOrder	B	[TRUE|FALSE]	
31	EDIFrom	T		
32	EDITo	T		
33	PickPage	B	[TRUE|FALSE]	Set to TRUE if picktickets are to be paged.
34	LoyaltyId	T		

BILLTO and SHIPTO Data Lines Format

The BILLTO and SHIPTO data lines will update the Bill To and Ship To we have on file for this invoice. Send both record types for each invoice.

Each line is to be tab-delimited and contain the following information:

#	Name	Type	Values	Description
1	Record Type	T	[SHIPTO|BILLTO]	
2	Customer Name	T		
3	Address Line 1	T		
4	Address Line 2	T		
5	Address Line 3	T		
6	Phone	T		
7	Latitude	T		**Optional**: Only used in the SHIPTO data line for eDelivery customers with bad addresses who want to manually set their LAT/LONG values for mapping their location in eDelivery. � *Example*: 33.86972
8	Longitude	T		**Optional**: Only used in the SHIPTO data line for eDelivery customers with bad addresses who want to manually set their LAT/LONG values for mapping their location in eDelivery. � *Example*: -117.98539
9	City	T		
10	State	T		
11	Zip	T		

INVITEM Data Line Format

Include one INVITEM data line for each item on the invoice. Each INVITEM line is to be tab-delimited and contain the following information:

#	Name	Type	Values	Description
1	Record Type	T	INVITEM	Will always be "INVITEM"
2	Invoice Number	T		Must match the invoice number in the INVHEAD line.
3	Item Number	I		This represents the line number of the invoice.
4	Product Line Code	T		
5	Sub Line Code	T		
6	Part Number	T		
7	Description	T		Part description. [COMMENT-ONLY] store comments here
8	Part Type	T	[PART|LABOR|FREIGHT|HANDLING|DEPOSIT|ADJUSTMENT|MISC|COMMENT-ONLY]	
9	Qty Ordered	D		should be positive on sale type transactions and negative on credit type transactions

#	Name	Type	Values	Description
10	Qty Shipped	D		should be positive on sale type transactions and negative on credit type transactions
11	Qty Type	T	[SALENEW|RETURNDEF|RETURNCORE|RETURN]	
12	Original Invoice	T		Return lines should fill this field in with the original invoice, if possible.
13	Cost Price	D		
14	Sell Price	D		
15	List Price	D		
16	Core Cost Price	D		Core charges can go on the same line as the part or on a separate line. If the core charge is on a separate line, the sell price should be 0 and the core price filled in.
17	Core Sell Price	D		
18	Special Price	B	[TRUE|FALSE]	
19	Taxable	B	[TRUE|FALSE]	
20	Comment	T		A comment associated with this invoice line. Not used.
21	Backorder Qty	D		

#	Name	Type	Values	Description
22	Origin	T		Port of entry (Mexico Only)
23	Pick Ticket	T		
24	Page Number	I		
25	Detail Type	I	See Below	Used for eSalesBI to determine which "bucket" the $'s for this detail line should be included in. If the Detail Type is 0, or omitted from the record, eSalesBI will attempt to determine the Detail Type from the Part Type and Qty Type fields. Setting the Detail Type is preferred.
26	DiscountAmount	D		

Detail Type Supported Values

#	Description
1	Part
2	Core
3	Labor
4	Freight
5	Handling
6	Warranty
7	Backorder

#	Description
8	Vendor Return
9	Deposit
10	Misc
11	Comment
12	Adjustment
13	Lost sale
14	Gift Card
15	Kit Component
99	Customer Specific / Exclude from eSalesBI

Invoice File Footer

Every invoice file needs to end with the following lines:

INVEND

END

Statement Files

Each time you print a statement on your management system, you need to send an electronic copy via our ePartMessage Web Service. If you send more than one statement for the same customer on the same day, our system will only keep the last one you send for the customer (the last statement of the day will overwrite any others previously sent for that customer).

Here is an example of a formatted statement file:

```
ACS
ACCOUNT testal store1
TYPE STATEMENT
START
STATE-START
CUSTNUM 1 False 03/20/2007 11:04:33 AM 1
NAME JOE'S AUTO REPAIR 123 ABC St Long Beach CA 90808
___
Items 1 1 1 03/16/2007 04:11:19 PM 03/16/2007
04:11:19 PM 6.5 0 INVOICE testal 1
Items 2 2 2 03/16/2007
04:11:27 PM 03/16/2007 04:11:27 PM 4.99 0 INVOICE testal 1
Items 3 2 2 03/16/2007
04:12:22 PM 03/16/2007 04:12:22 PM -1 1 PAYMENT 1 testal 1
Items 4 3 3 03/16/2007 04:11:35 PM 03/16/2007
04:11:35 PM 5.99 1 INVOICE testal 1
Items 5 5 5 03/19/2007 08:32:17 AM 03/19/2007
08:32:17 AM 5.5 1 INVOICE testal 1
Items 6 5 5 03/19/2007 04:35:11 PM 03/19/2007
04:35:11 PM -1 1 PAYMENT 2 testal 1123123
TOTALS 0 CURRENT|30 DAYS|60 DAYS|90 DAYS|SERVICE
CHARGE|TOTAL DUE 22.98|0.00|0.00|0.00|0.00|22.98
STATE-END
END
```

Each line will be explained below.

Statement File Header

Each statement file starts with this header. The ACCOUNT and TYPE fields need to be separated by tabs.

```
ACS
ACCOUNT ePartStoreId LocationIdentifier
TYPE STATEMENT
START
STATE-START
```

The line starting with ACCOUNT will contain your ePart Store ID and a Location ID which you can use to represent which store this invoice came from if you have multiple stores.

Statement File Data Lines

After the Statement File Header, include the following data before sending a footer. All items need to be tab delimited.

CUSTNUM

NAME

ITEMS

TOTALS

DISCOUNT

DISCOUNTTERMS

CUSTNUM Data Line

#	Name	Type	Values	Description
1	Record Type	T	CUSTNUM	
2	Customer Number	T		
3	Balance Fwd	B	[TRUE|FALSE]	This is used to signify if it is a Balance Forward or Open Item account.
4	Statement Date	T		mm/dd/yyyy hh:mm:ss AM | PM
5	Statement Number	D		If you have a number associated with each run of statements, put that in this field. If not, just use 1.

NAME Data Line

NAME data lines will expect the following fields:

1. Record Type [will always be "NAME"]
2. Name [alphanumeric]
3. Address line 1 [alphanumeric]
4. Address line 2 [alphanumeric]
5. Address line 3 [alphanumeric]

ITEMS Data Lines

Include one "ITEMS" data line for each item on the statement. Each item is to be tab-delimited and contain the following information:

1. Record Type [will always be "ITEMS"]
2. Sequence [numeric]

   Statement lines are sorted by the sequence number. If you want to send the items in order, this must be an increasing counter variable.
3. Invoice number [alphanumeric]
4. Link [alphanumeric]

   This is used by the AIS software to calculate running totals. Send the invoice number in this field.
5. Invoice Date [Format: mm/dd/yyyy hh:mm:ss AM | PM] Example: 03/16/2007 04:11:19 PM
6. Invoice Due Date [Format: mm/dd/yyyy hh:mm:ss AM | PM]

   Example: 03/16/2007 04:11:19 PM

   If the invoice has no "due date", we suggest you simply use the Invoice Date.
7. Invoice Total [numeric with two decimals] Invoice total, positive or negative.
8. Credit [positive numeric with two decimals] Amount credited.
9. Type [INVOICE | PAYMENT | other (alphanumeric)]

   When sending the type of an item, anything will work. If the Type is "PAID" or "PAYMENT", the item will be included in the "Payments" tab of ePaperless Office. You can send something else like "Service Charge" or "Service Charge Paid", etc.
10. Reference [alphanumeric] Anything you put here will be under the "Reference" column for this invoice.
11. PO [alphanumeric]
12. Location [alphanumeric]
13. Check Number [alphanumeric]
14. EpartId [alphanumeric] This must be the ePart ID for the store that created the item or blank. This is used to find the invoice in multi store statements.

TOTALS Data Line

1. Record Type [will always be "TOTALS"]
2. Terms AR ID [numeric] This is currently unused but it is required so simply send "0" for now.
3. Headers [one or more of multiple alphanumeric responses delimited by "|"]
   This is a pipe (|) delimited list of headers you want to see listed for "Totals" in ePaperless Office. In the example on Page 7, CURRENT|30 DAYS|60 DAYS|90 DAYS|SERVICE CHARGE|TOTAL DUE is being sent. In ePaperless Office, the statement would show these items as headers for values sent in the next field.
4. Values [one or more of multiple alphanumeric responses delimited by "|"]
   This is a pipe (|) delimited list of the values to be listed under the headers created above. You must send the same number of values as you send headers. Each value will show under the respective header defined above.

DISCOUNT Data Line

The DISCOUNT data line will expect the following fields:

#	Name	Type	Values	Description
1	Record Type	T	DISCOUNT	
2	Discount Description	T		This is a text field that will be displayed on the statement as a discount line. This is not a discount amount, but a description of the discount. Specifics for the discount should be passed in the DISCOUNTTERMS field. Example: "10.66 DISCOUNT ALLOWED ON 533.16 IF PAYMENT RECEIVED BY THE 10TH"

NOTE: If the customer is not current or is not on a terms plan, the management system should not send the DISCOUNT line for that statement.

DISCOUNTTERMS Data Line

The DISCOUNTTERMS data line will expect the following fields:

#	Name	Type	Values	Description
1	Record Type	T	DISCOUNTTERMS	
2	Discount Amount	D	ex: 20.00	The amount allowed if the Discount Total is paid in full by the Discount Date .
3	Discount Total	D	ex: 980.00	The total amount that needs to be paid to allow Discount Amount.
4	Discount Date	T	MM-DD-YY ex:04-10-25	The date the customer must pay the Discount Total to receive the Discount Amount.
5	Total Amount	D	ex: 1000.00	The total amount due for this statement.
6	Total Date	T	MM-DD-YY ex:04-30-25	The date the customer is due to pay the Total Amount.
7	Pay Flag	T	Comma separated pairs consisting of either ACH or CC (Credit Card)	Pay Flag to allow only certain types for discount or blank for all.

NOTE: If the customer is not current or is not on a terms plan, the management system should not send the DISCOUNTTERMS line for that statement.

Statement Footer

Each statement file needs to end with the following lines:

```
STATE-END
END
```

Payment Files "Real Time Payments"

Real Time payments are used when you want to show payment when they are received instead of only showing payments extracted from the saved statement files. You don't have to send payment files. Your system can show the payments extracted from the last statement every time if you want to configure it that way.

Example:

```
ACS
ACCOUNT ROYSTEST3 /home/phil/STR3
TYPE PAYMENT
START
PAYMENT ROYSTEST3 400 -1 11/15/2007 11:05:55 AM 1.000000
204 /home/phil/STR3 1 ROYSTEST3
PAYMENT END
END
```

Payment File Header

Every payment file must start with the following header. The ACCOUNT and TYPE fields need to be separated by tabs.

```
ACS
ACCOUNT ePartStoreId LocationIdentifier
TYPE    PAYMENT
START
```

The line starting with ACCOUNT will contain your ePart Store ID and a Location ID which you can fill in to represent which store this invoice came from if you have multiple stores.

Payment Line

Payment lines send information about the payment that was just logged. Payment lines contain:

#	Name	Type	Values	Description
1	Record Type	T	PAYMENT	
2	EpartId	T		
3	Customer Number	T		The customer's account number
4	Original Invoice	T		The original invoice number this payment applies to.
5	Date			The date for the payment
6	Amount	D		Amount for the payment
7	Reference	T		The reference number or the "payment" invoice number
8	Location	T		Management system specific location number, (log number or store path)
9	Check Number	T		Check Number

#	Name	Type	Values	Description
10	OriginalEpartId	T		ID for the store which this payment goes to. Send same ID as #1 if you don't have multiple stores.
11	Description	T		the description, message, or reason code for this payment
12	Discount	D		Amount of Discount Taken

Payment Footer

#	Name	Type	Values	Description
1	Record Type	T	PAYMENT END	
2		T	END	

Balance Files

Example:

ACS

ACCOUNT ROYSTEST3 /home/phil/STR3

TYPE BALANCE

START

BALANCE 250 Current:12038.78,30 day:12.99,60 day:12.99

BALANCE END

END

Balance File Header

Every payment file must start with the following header. The ACCOUNT and TYPE fields need to be separated by tabs.

ACS

ACCOUNT ePartStoreId LocationIdentifier

TYPE BALANCE

START

The line starting with ACCOUNT will contain your ePart Store ID and a Location ID which you can fill in to represent which store this invoice came from if you have multiple stores.

Balance Line

#	Name	Type	Values	Description
1	Record Type	T	BALANCE	
2	Customer Number	T		The customer's account number
3	Balance Data	T		Comma separated pairs with Colon separated Key Value pairs [alphanumeric]:[decimal],[alphanumeric]:[decimal]

Balance Footer

#	Name	Type	Values	Description
1	Record Type	T	BALANCE END	
2		T	END	

INVOICE IMAGE FILES

http://srv.epartconnection.com/OfficeWebService1/Service1.asmx?op=AcceptPictureForInvoiceWithDateSigned

data = base64 encoded string of PDF data

EpartId = Store ID

Invoice = invoice #

MMDDYY = date of invoice in MMDDYY format

Signed = 1 if it's a scanned invoice, 0 if not

STATEMENT IMAGE FILES

http://srv.epartconnection.com/officewebservice1/Service1.asmx?op=AcceptPictureForStatement

data = base64 encoded string of PDF data

EpartId = Store ID

customerNumber = customer #

MMDDYY = date of invoice in MMDDYY format