



Payment Express® Batch Processor (PxBat)

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OVERVIEW

The Payment Express® Batch Processor (PxBat) provides a solution for merchants who need to process large numbers of transactions, quickly, easily and securely.

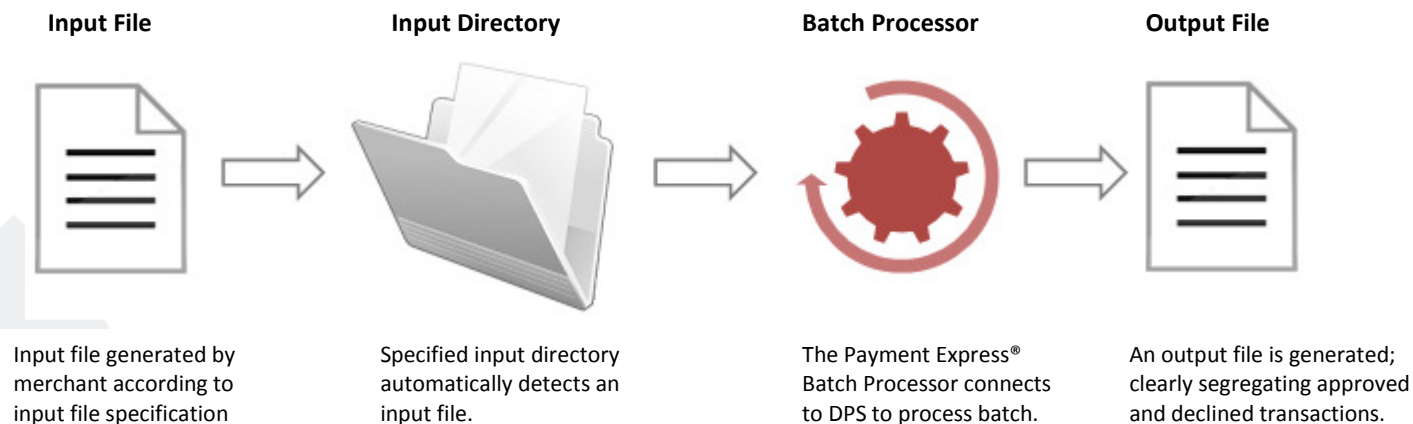
The Batch Processor uses military grade encryption (3DES) and securely authorises transactions, in real time. It has been specifically designed to support organizations that do regular billing for the same or variable amounts and do not want the compliance cost or risk of storing sensitive card details.

The Batch Processor is designed to process input files containing credit card payment information for authorisation. The Batch Processor connects directly to the DPS web server using HTTPS posts. Input files are processed on the central batch processor at DPS and the output is returned.

- Capable of processing thousands of transactions in one batch job
- Supports all transaction types
- Easily reconcile transactions using Payment Express® reports
- 32-bit and 64-bit compatible

HOW IT WORKS

The Payment Express® Batch Processor application monitors a user-specified directory for input batch files. When an input file is detected the Batch Processor connects to DPS and logs on to the Central Batch Processor using the login details set in the application. The file is then processed and an output file will be generated. The Batch Processor connects to the address <https://www.paymentexpress.com>.



PREPARATION

To begin testing with Payment Express® Batch Processor, you will need the following:

- Payment Express® Batch Processor software (minimum version 4.0.0.0) – This can be downloaded from your Payline user account.
- Payment Express® Batch Processor development account – Contact our Ecommerce sales team to request a dev account. Call us on 0800 PAYMENT (729 6368) or +64 9 309 4693, apply online at <https://www.paymentexpress.com/pxmi/apply>, or email us at sales@paymentexpress.com.

Before you begin, consider the following:

Deployment Environment

Windows NT 4.0 or better operating system is required to run the Batch Processor software. The software supports both 32bit and 64bit operating systems.

Privileges

To execute and install the Batch Processor software administrative privileges are required during the setup phase. Permanent write privileges are also required for the user on the install directory for the generation of output files and storage of logs files.

If the machine hosting the Batch Processor software and service goes through a proxy, the Batch Processor service will need privileges setup for that proxy (*more information on page 8*).

Firewall considerations

The Batch Processor requires access to DPS to process the batch files.

Ensure that the firewall allows access to the following:

Address: <https://www.paymentexpress.com>

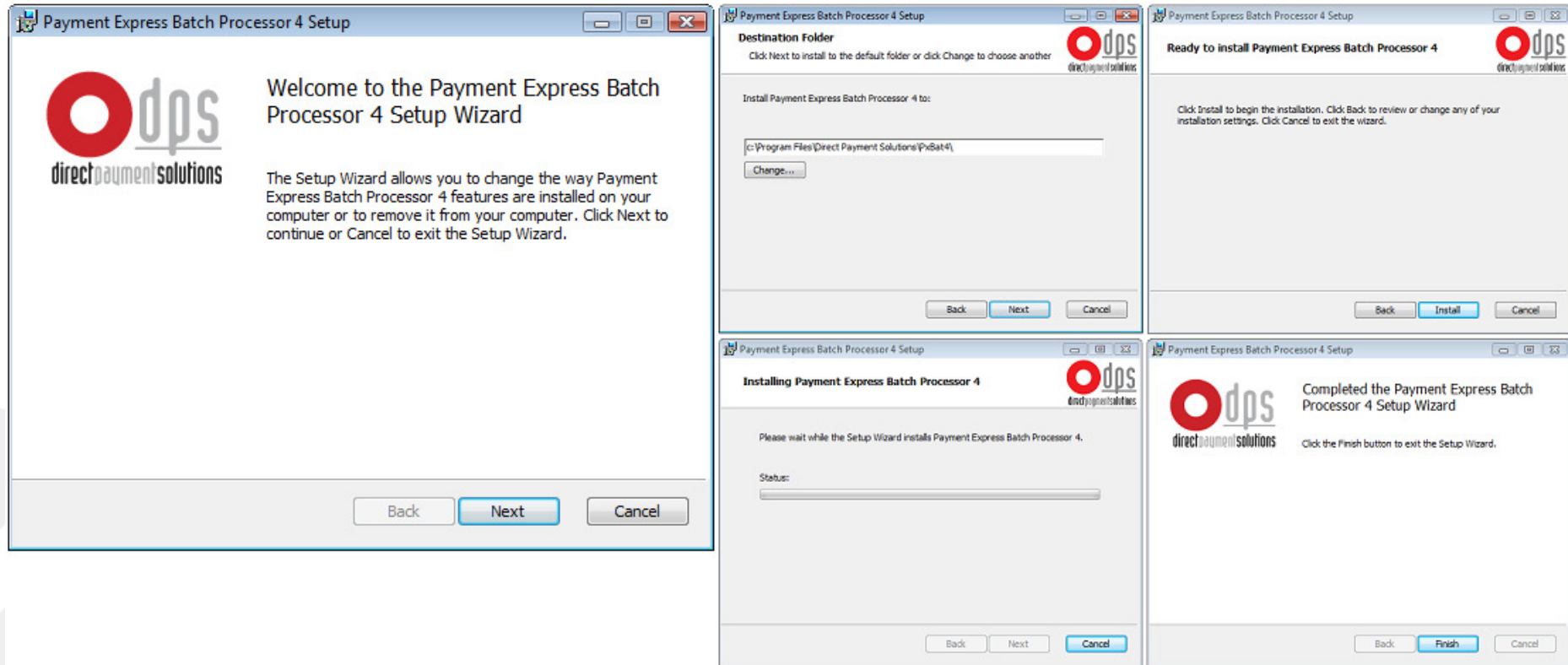
Port: 443

INSTALLATION

Once you have downloaded the software and extracted its contents you should have an MSI file called "PxBat4.msi".

Using the PxBat4.msi file prompts a straight forward five stage installation wizard. The default install directory is "C:\Program Files\Direct Payment Solutions\PxBat4\". DPS recommend using the default directory.

PxBat4.msi installation screenshots:



Batch Processor can also be installed manually. This is done by copying PxBat.exe and PxBatConfig.exe into a chosen directory and manually installing the Batch Processor service. If assistance is required for the manual approach, please contact our E-commerce support team on 0800 PAYMENT (729 6368) or +64 9 309 4693, or email support at support@paymentexpress.com.

Files

The following files are installed in the Batch Processor installation directory during installation.

Name	Date modified	Type	Size
 PxBat.exe	1/14/2010 5:38 PM	Application	441 KB
 PxBat_CFG.TXT	10/6/2010 10:09 AM	Text Document	1 KB
 PXBAT_DPS05_2010100...	10/6/2010 10:09 AM	Text Document	1 KB
 PxBatConfig.exe	1/14/2010 5:41 PM	Application	289 KB

Note: an additional file (LOGON.DAT) file will be generated when the username and password is setup.

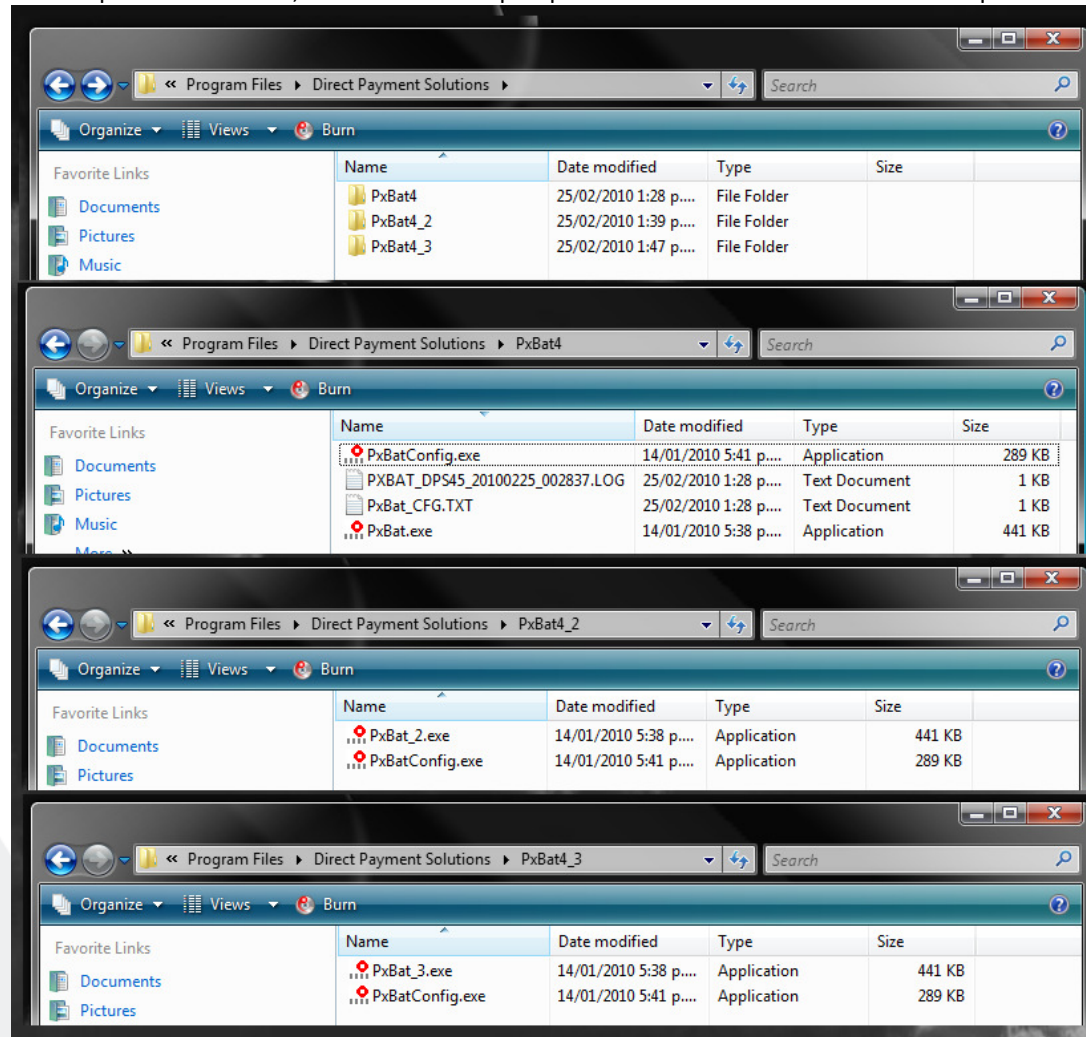
Service

The following service is installed during installation.

Services (Local)					
Performance Logs & Alerts					
Name	Description	Status	Startup Type	Log On As	
 Payment Express Batch Processor 4	Sends batches of financial transactions to Direct Payment Solutions	Started	Automatic	Local System	

Installing Multiple Instances of Batch Processor on a Single Machine

In the case where multiple instances of Batch Processor need to be installed side-by-side on one machine, the first instance should be installed via the PxBat4.msi and the remaining instances manually by copying PxBat.exe and PxBatConfig.exe from the original PxBat4 folder (within C:\Program Files\Direct Payment Solutions\), if the default destination is used) and then pasted into separate directories, with one set of copies per new instance of Batch Processor required.



As illustrated by the composite image above, the new copies of PxBat.exe need to be renamed.

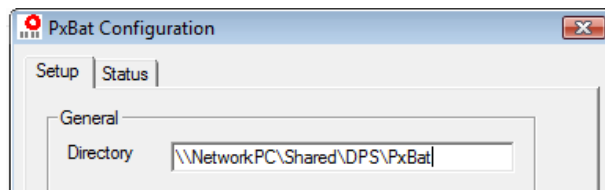
The renaming should use the format PxBat_NEWLABEL.exe (where _NEWLabel is the addition to the filename), as when the new instance of PxBat is installed as a service the appended label (_NEWLABEL in this example) will be used as the default addition to the service display name (see below). In the composite image displayed above, the directory renaming matches the .exe renaming, this isn't necessary, but isn't a bad convention to adhere to. Once the additional instances of PxBat have been copied to new directories and renamed, they can be setup and run as services.

To setup an additional instance of PxBat as a service, do the following:

- Within a command prompt, navigate to the same directory as the PxBat.exe file of the instance to be setup as a service.
- Execute the command: `nameofexecutable install` (e.g. `PxBat_2.exe install`). This will create a new service that corresponds to this instance of PxBat.

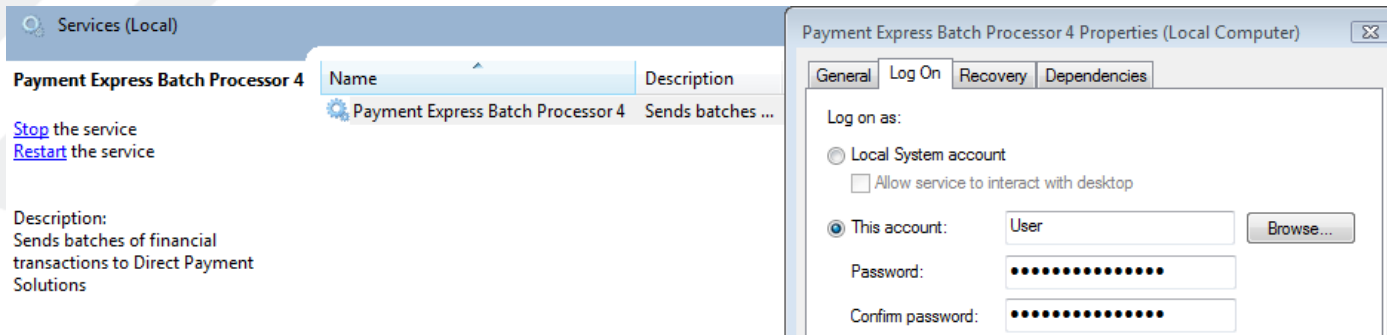
Shared Network Input Directory

The input directory defined for an instance of PxBat does not have to reside on the local machine, it can be a shared network folder. The user that will be logged in when the instance of PxBat is expected to be running will need access to the shared network directory. Once access is obtained, that shared network directory can be defined as the input directory for the instance of PxBat by entering the network path of the directory into the directory field within PxBatConfig.exe.



Batch Processor via Web Proxy

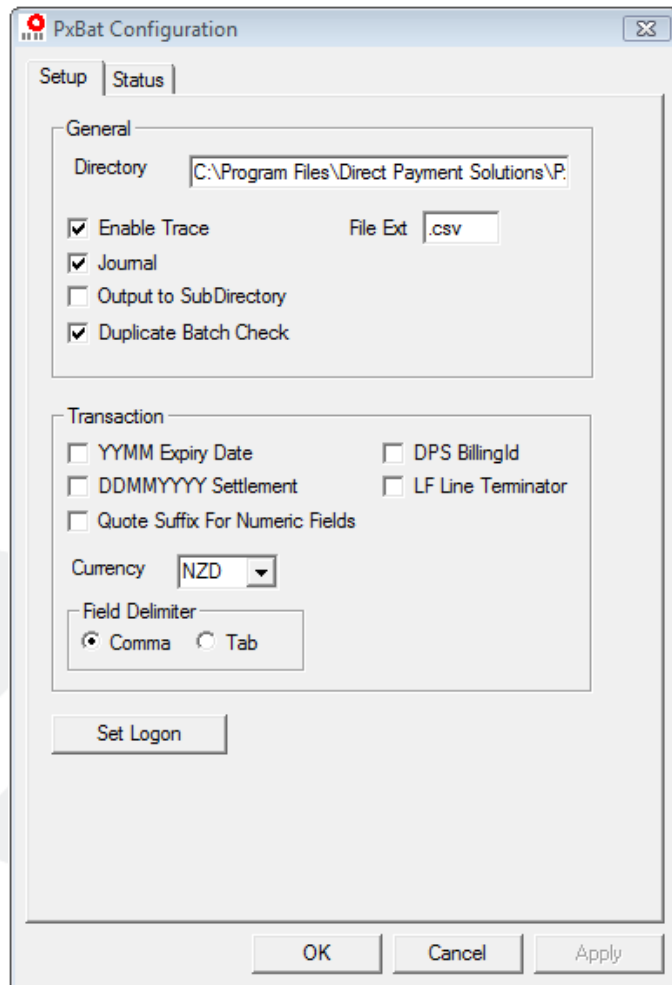
An instance of PxBat can be used through a web proxy, however the service that corresponds to the instance needs to be 'run as' a user that has access/permissions setup with that proxy. This can be done by navigating to the 'Logon' tab within the 'Properties' dialog of the corresponding service. Once there, the 'This account' option should be selected and valid details entered.



CONFIGURATION

To configure an instance of PxBat, run the corresponding PxBatConfig.exe file.

When run, PxBatConfig.exe will bring up a GUI, as depicted below:



General Options

Directory: This is the directory path for the input directory that this instance of PxBat will monitor for batch files. For an instance of PxBat installed via PxBat4.msi, this value will default to installation directory, whereas in manually installed instances it will be empty. Refer to "Setting Up a Shared Network Directory as Input Directory" section for details on using a shared network directory as the defined input directory. *Default: C:\Program Files\Direct Payment Solutions\PxBat4.*

Journal: If checked, a journal of all processed batch files will be kept in a text file within the program's folder. *Default: Checked.*

Output to SubDirectory: If checked, all output files are written to a 'PROCESSED' directory within the defined input directory. If the 'PROCESSED' directory does not exist it is created. If this option is unchecked, all output files are written into the defined input directory. *Default: Not checked.*

Duplicate Batch Check: If checked, duplicate filename checking is enabled and no file will be processed if a file with the same filename has been previously processed by the central batch processor. This filename checking is bounded by Group within PXMI (which is an important fact to remember if multiple instances of PxBat are being used by a customer). Note that this checking is NOT bounded by time, so if they wish to use a batch file naming convention that repeats every particular time unit (day, month etc.), they will need to append some sort of counter to the filename (such as the date), otherwise they will get file duplication errors when they attempt to reuse filenames. *Default: Checked.*

File Ext: This value defines the file extension of target batch files that this instance of PxBat will monitor for within the defined input directory, e.g. if set to '.vol', PxBat will treat any file within the defined input directory with the '.vol' extension as a batch file that should be processed. *Default: '.csv'.*

Transaction Options

YYMM Expiry Date: If checked, PxBat will interpret expiry dates within submitted batch files in YYMM format, not MMY. *Default: Not checked (date format for expiry dates is MMY).*

DDMMYYYY Settlement: If checked, PxBat will output AcquirerDate and DateSettlement dates in DDMMYYYY format where DD is Day or month, MM is month 01-12 and YYYY is year. *Default: Not checked (dates output in YYYYMMDD format).*

Quote Suffix For Numeric Fields: If checked, appends a single quote (') to numeric fields like Card Number. This prevents Microsoft Excel etc. from interpreting such fields as a number value (which causes corruption of the value if the file is later saved by Excel). *Default Not Checked.*

DPS BillingId: If checked, a DpsBillingId can be used for recurring billing purposes. If unchecked, you can use your own BillingId for token billing transactions. *Default: Not checked.*

LF Line Terminator: If the batch files that will be submitted to this instance of PxBat use a CSV format that uses LF (Line Feed) terminators instead of plain CRs (carriage returns) then option should be checked. *Default: Not checked.*

Currency: If this value is set, it must match the value defined by the Port referenced by submitted batch files. If this value is left unset, the currency will be defined by the Port referenced by submitted batch files. *Default: Unset.*

Field Delimiter: This value dictates the field delimiter (either comma or tab characters) that this instance of PxBat will expect to be used within the batch files submitted. *Default: Comma.*

All settings are saved in the PxBat_CFG.txt file.

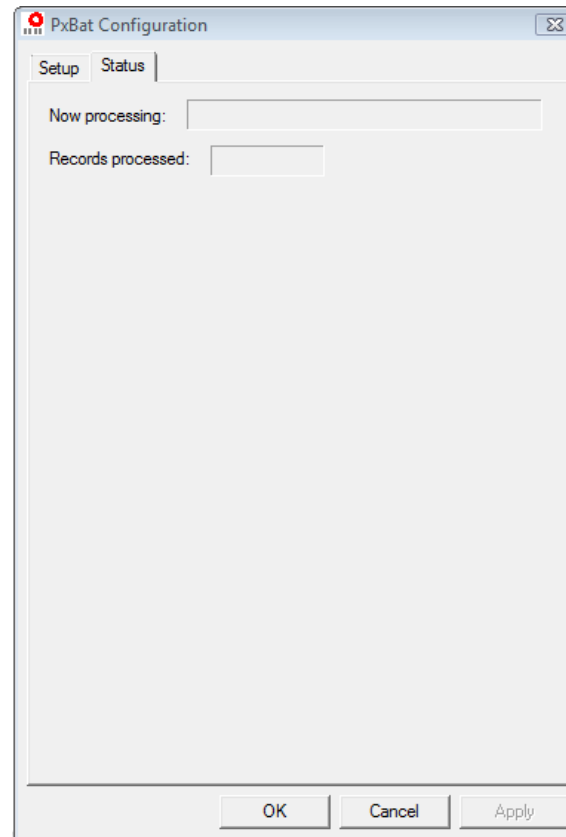
```
<Config>
  <PxBat>
    <EnableBatchJournal>1</EnableBatchJournal>
    <DuplicateCheck>1</DuplicateCheck>
    <UseDpsBillingId>0</UseDpsBillingId>
    <Currency>NZD</Currency>
    <FileDirectory>C:\Program Files\Direct Payment Solutions\PxBat4\</FileDirectory>
    <EnableSettlementDateDDMMYYYY>0</EnableSettlementDateDDMMYYYY>
    <FileExtension>.csv</FileExtension>
    <EnableOutputSubdirectory>0</EnableOutputSubdirectory>
    <EnableLfLineTerminator>0</EnableLfLineTerminator>
    <Delimiter>,</Delimiter>
    <EnableQuoteSuffix>0</EnableQuoteSuffix>
    <EnableExpiryYYMM>0</EnableExpiryYYMM>
    <EnableTrace>1</EnableTrace>
  </PxBat>
</Config>
```

Set Logon

Within the dialog displayed by this button, the Batch Processor username and password that this instance of PxBat should use can be defined. The username and password defined for an instance of PxBat are stored in encrypted form within the LOGON.DAT file in the program's directory. In the multiple instance environments a separate login will be setup for each instance (*see installing Multiple Instances of PxBat on a Single Machine on page 7 for more information*).

STATUS

This tab (see below) displays real time processing of transactions within submitted batch files. The 'Now processing' field will display the filename of the submitted batch file, while the 'Records processed' field will show the number of transaction from that file that have been processed.



FILE FORMAT

Input File

Each line of the file represents an authorisation, purchase, completion or refund request and has the following format:

TxnType,Account,MerchantReference,CardNumber,Expiry,Amount,DpsTxnRef,CPC,
CardHolderName

Field	Parameter	Description
1	TxnType	Transaction type that you would like to send. Can be Purchase, Refund, Tipping or Billing type transactions. Valid values are 'A'=Auth, 'C'=Completion, 'P'=Purchase, 'R'=Refund, 'V'=Validate, 'B'=Bill
2	Account	DPS account number. Values can be 0-9999 depending upon account to settle to.
3	MerchantReference	Free transaction reference field. E.g.: booking reference, order reference or invoice number.
4	CardNumber/BillingId/DPSBillingId	Card Number. Note - must be followed by a single ' character if this file is loaded and saved using Microsoft Excel spreadsheet.
5	ExpiryDate	Card Expiry Date in MMY format. Some acquirers do not require this field - contact DPS for more details. Also not required if BillingId/DpsBillingId is used.
6	Amount	Amount in d.cc format e.g. \$1.23 would be 1.23
7	PreAuthNumber/ DpsTxnRef	Either PreAuthNumber or DpsTxnRef (Preferred) needs to present for completion requests to match against original authorisation. DpsTxnRef will also need to be present for Refund transactions to match the original Purchase, Completion or Billing transaction.
8	CPC	Corporate Purchase Card transactions. Extended data, which will appear on corporate cardholder's statements if your merchant account supports it.
9	CardHolderName	Cardholder Name if known.

Sample Input Record Format:

P,9997,Ref1,4111111111111111,1010,1.23,,,TEST NAME1

The above input line describes a Purchase transaction for account 9997, Merchant Reference "Ref1", card number 4111111111111111, Expiry Date February 2001, amount \$1.23, PreAuthNumber blank, reserved value blank, Card holder name is "TEST NAME1". Additional data (if present) is ignored and is not written to output file. Trailing single quotes (') or double quotes (") are ignored. These should be included to prevent the cardnumber etc being interpreted as decimal values by Excel i.e. cardnumber should be input as 4111111111111111' not 4111111111111111.

Output File

The output file filename uses the original filename with the suffix "_OUT" appended to the original name. The file type is preserved. Each line of the file represents an authorisation, purchase, completion or refund result and has the following format:

TxnType,Account,MerchantReference,CardNumber,ExpiryDate,Amount,DpsTxnRef(Input),
CPC,CardHolderName,Result,ResponseCode,ResponseText,DpsTxnRef(Output),
AcquirerDate,AcquirerTime,AuthCode

If the output file name already exists (i.e. If the same input file name is used before the original output file is deleted), then a date stamp is appended after the _OUT suffix. In this case, the output filename is INPUT_OUTyyyymmddhhmmss.CSV

Field	Parameter	Description
1	TxnType	Transaction type that you would like to send. Can be Purchase, Refund, Tipping or Billing type transactions. Valid values are 'A'=Auth, 'C'=Completion, 'P'=Purchase, 'R'=Refund, 'V'=Validate, 'B'=Bill
2	Account	DPS account number. Values can be 0-9999 depending upon account to settle to.
3	MerchantReference	Free transaction reference field. E.g.: booking reference, order reference or invoice number.
4	CardNumber/BillingId/DpsBillingId	Card Number. Note - must be followed by a single ' character if this file is loaded and saved using Microsoft Excel spreadsheet
5	ExpiryDate	Card Expiry Date in MMY format
6	Amount	Amount in d.cc format e.g. \$1.23 would be 1.23
7	PreAuthNumber/DpsTxnRef	Either PreAuthNumber or DpsTxnRef (Preferred) needs to present for completion requests to match against original authorisation. DpsTxnRef will also need to be present for Refund transactions to match the original Purchase, Completion or Billing transaction.
8	CPC	Corporate Purchase Card transactions. Extended data, which will appear on corporate cardholders statements if your merchant account supports it.
9	CardHolderName	Cardholder Name if known.
10	Result	Success of the transaction. 0=declined/failed, 1=accepted
11	ResponseCode	2 character response code e.g.: "00"
12	ResponseText	Text associated with response code. E.g.: "ACCEPTED"
13	AuthCode	Authorisation (Approval) code if accepted.
14	DpsTxnRef	DPS unique transaction reference of the new transaction
15	AcquirerDate	YYYYMMDD
16	AcquirerTime	HHMMSS
17	DateSettlement	YYYYMMDD

Sample Output Record Format

P,0,Ref1,"4988720008880035",0102,133.20,,345,A J CARDHOULD,1,00,ACCEPTED,886453,100035REF1,19990912,180922,19990912

The above output line describes a Purchase transaction for account 0, reference "Ref1", card number 4988720007770035, Expiry Date January 2002, amount \$133.20, CVC2 value 345, Card holder name is "A J CARDHOULD", Result is 1 (approved), ResponseCode is "00", Text is ACCEPTED, TxnRef is 100035REF1, Date is 12th Sep 1999, Time is 6:09:22pm, Approval Code is 886453 and Date of Settlement is 12 Sept 1999

BATCHING SCENARIOS

Purchase Transactions

Input Sample	P,9997,Reference,4111111111111111,1010,1.23,,,TEST NAME
Output Sample	P,9997,Reference,4111111111111111,1010,1.23,,,TEST NAME,1,00,APPROVED,031507, 0000000300a7a5e9 ,20050311,031507,20050311

Note: The DPSTxnRef (0000000300a7a5e9) that can be used later for refund transactions is highlighted in the output.

Refund Transactions

Input Sample	R,9997,Reference,,,1.23, 0000000300a7a5e9 ,,TEST NAME
Output Sample	R,9997,Reference,,,1.23, 0000000300a7a5e9 ,,TEST NAME,1,00,APPROVED,032042,0000000300a7a5ea,20050311,032042,20050311

Note: The DpsTxnRef is highlighted above. This value is given as the output in the original purchase, complete or billing transaction. All refund transactions need to be matched with the original transaction.

Authorisation Transactions

Input Sample	A,9997,Reference,4111111111111111,1010,1.23,,,TEST NAME
Output Sample	A,9997,Reference,4111111111111111,1010,1.23,,,TEST NAME1,1,00,APPROVED, 00113400a7a5c400000003 , 0000000300a7a5e9 ,20050307,001134,20050307

Note: The Pre-Authorisation code (00113400a7a5c400000003) is given back and can be used to complete transactions.

Note: The DpsTxnRef (0000000300a7a5e9) is given back and is the preferred method for matching the completions.

Completion Transactions using Pre-Auth Number

Input Sample	C,9997,Reference,,,1.23, 03471400a7a5eb00000003 ,,TEST NAME
Output Sample	C,9997,Reference,4111111111111111,1010,1.23, 03471400a7a5eb00000003 ,,TEST NAME,1,00,APPROVED,035204,0000000300a7a5ed,20050311,035204,20050311

Note: The Pre-Auth Number is highlighted above. This value was given as the output from the original authorisation transaction.

Completion Transactions using DPSTxnRef

Input Sample	C,9997,Reference,,,1.23, 0000000300a7a5e9 ,,TEST NAME
Output Sample	C,9997,Reference,4111111111111111,1010,1.23, 0000000300a7a5e9 ,,TEST NAME,1,00,APPROVED,001314,0000000300a7a5c5,20050307,001314,20050307

Billing Transactions using BillingID

Input Sample	B,9997,Reference,00000000022367439876215729745683,,1.23,,,TEST NAME
Output Sample	B,9997,Reference,00000000022367439876215729745683,,1.23,0000000300a7a5e9,,TEST NAME,1,00,APPROVED,001314,0000000300a7a5c5,20050307,001314,20050307

Note: In PxBatConfig.exe the check box named "DPS BillingId" needs to be unchecked. The BillingId used here was 00000000022367439876215729745683.

Billing Transactions using DpsBillingID

Input Sample	B,9997,Reference,0000000000518077,,1.23,,,TEST NAME
Output Sample	B,9997,Reference,0000000000518077,,1.23,,,TEST NAME,1,00,APPROVED,104753,00000004010486cd,20050614,104753,20050614

Note: In PxBatConfig.exe the check box named "DPS BillingId" needs to be checked. The DpsBillingId used here was 0000000000518077.

Adding billing cards

To add a billing card to the Billing Vault and receive a token for subsequent billing purposes you will use a different message format. A format specifier, "X0006", must appear as the first field in every record.

Valid TxnTypes are "P", which processes a purchase transaction and stores the card details, "A", which processes an authorisation transaction and stores the card details, and "H", which simply stores the card details without processing a financial transaction.

X0006, TxnType, Operation, Account, Merchant Reference, Card Number, Expiry, Amount, Issue Number, Card holder name, Billing ID

The Billing ID field can be left blank if you intend to obtain and use the DpsBillingId only. For "H" transaction type use an amount of "1.00" which will be disregarded as no financial transaction takes place.

Input Sample	X0006,H,Add,9997,create token 1,4111111111111111,1010,1.00,,C HOLDER,billingID1
Output Sample	X0006,H,Add,9997,create token 1,4111111111111111,1010,1.00,,C HOLDER,billingID1,1,,ADDED,0000050000000019,,,,

The output format has the following properties in addition to the input message - Authorized (1 or 0), ReCo, Response Text, DpsBillingId, DpsTxnRef, Date, Time, DateSettlement

AVS Transactions

Address verification uses a different file format. The following should be used for the AVS message format and the format specifier "X0003" must appear as the first field in every record.

X0003, TxnType, Account, Merchant Reference, Card Number, Expiry, Amount, PreAuth/DpsTxnRef, Card holder name, Issue Number, AVS Enable, AVS Action, AVS Street Address, AVS Postal Code

Input Sample	X0003,Purchase,9997,merchant reference,4111111111111111,1010,1.00,,C HOLDER,,1,1,123 Elm St,9001
Output Sample	X0003,Purchase,9997,merchant reference,4111111111111111,1010,1.00,,C HOLDER,,1,1,123 Elm St,9001,1,00,APPROVED,A1,MI23286266799FEA,20080707,121844,20080708

The output format has the following properties in addition to the input message - Authorized (1 or 0), ReCo, Response Text, Authorization Code, DpsTxnRef, Date, Time, DateSettlement.

Airline Transactions

Airline data uses a different file format. The following should be used for the airline data message format and the format specifier "X0004" must appear as the first field in every record.

X0004, TxnType, Account, Merchant Reference, Card Number, Expiry, Amount, PreAuth/DpsTxnRef, Card holder name, Issue Number, EnablePaxInfo, Passenger Name, Ticket Number, Travel Agent Info, Origin, Leg 1 Destination, Leg 2 Destination, Leg 3 Destination, Leg 4 Destination, Leg 1 Carrier, Leg 2 Carrier, Leg 3 Carrier, Leg 4 Carrier, Leg 1 Departure Date, Leg 2 Departure Date, Leg 3 Departure Date, Leg 4 Departure Date, Leg 1 Departure Time, Leg 2 Departure Time, Leg 3 Departure Time, Leg 4 Departure Time, Leg 1 Service Class, Leg 2 Service Class, Leg 3 Service Class, Leg 4 Service Class, Leg 1 Stopover Code, Leg 2 Stopover Code, Leg 3 Stopover Code, Leg 4 Stopover Code, Leg 1 Fare Basis, Leg 2 Fare Basis, Leg 3 Fare Basis, Leg 4 Fare Basis, Leg 1 Flight Number, Leg 2 Flight Number, Leg 3 Flight Number, Leg 4 Flight Number

Input Sample	X0004,Purchase,9997,merchant reference,4111111111111111,1010,1.00,,C HOLDER,,1,Mr John Smith,08144886622110,Booking ABABAB,HKG,AKL,LHR,KUL,SFO,NZ,NZ,NZ,NZ,01/06/08,02/06/08,03/06/08,04/06/08,1100,1200,1300,1400,C,C,C,C,O,O,X,AF,BF,CF,DF,1001,1002,1003,1004
Output Sample	X0004,Purchase,9997,merchant reference,4111111111111111,1010,1.00,,C HOLDER,,1,Mr John Smith,08144886622110,Booking ABABAB,HKG,AKL,LHR,KUL,SFO,NZ,NZ,NZ,NZ,01/06/08,02/06/08,03/06/08,04/06/08,1100,1200,1300,1400,C,C,C,C,O,O,X,AF,BF,CF,DF,1001,1002,1003,1004,1,00, APPROVED,A00002,MI20283191AD2AD4,20080423,121021,20080424

The output format has the following properties in addition to the input message - Authorized (1 or 0), ReCo, Response Text, Authorization Code, DpsTxnRef, Date, Time, DateSettlement

Airline and AVS Transactions

Airline data can be submitted in conjunction with AVS data. The following should be used for the airline data/AVS message format and the format specifier "X0005" must appear as the first field in every record.

X0005, TxnType, Account, Merchant Reference, Card Number, Expiry, Amount, PreAuth/DpsTxnRef, Card holder name, Issue Number, AVS Enable, AVS Action, AVS Street Address, AVS Postal Code, EnablePaxInfo, Passenger Name, Ticket Number, Travel Agent Info, Origin, Leg 1 Destination, Leg 2 Destination, Leg 3 Destination, Leg 4 Destination, Leg 1 Carrier, Leg 2 Carrier, Leg 3 Carrier, Leg 4 Carrier, Leg 1 Departure Date, Leg 2 Departure Date, Leg 3 Departure Date, Leg 4 Departure Date, Leg 1 Departure Time, Leg 2 Departure Time, Leg 3 Departure Time, Leg 4 Departure Time, Leg 1 Service Class, Leg 2 Service Class, Leg 3 Service Class, Leg 4 Service Class, Leg 1 Stopover Code, Leg 2 Stopover Code, Leg 3 Stopover Code, Leg 4 Stopover Code, Leg 1 Fare Basis, Leg 2 Fare Basis, Leg 3 Fare Basis, Leg 4 Fare Basis, Leg 1 Flight Number, Leg 2 Flight Number, Leg 3 Flight Number, Leg 4 Flight Number

Input Sample	X0005,Purchase,9997,merchant reference,4111111111111111,1010,1.00,,C HOLDER,,1,1,123 Elm St,9001,1,Mr John Smith,08144886622110,Booking ABABAB,HKG,AKL,LHR,KUL,SFO,NZ,NZ,NZ,NZ,01/06/08,02/06/08,03/06/08,04/06/08,1100,1200,1300,1400,C,C,C,O,O,O,X, AF,BF,CF,DF,1001,1002,1003,1004
Output Sample	X0005,Purchase,9997,merchant reference,4111111111111111,1010,1.00,,C HOLDER,,1,1,123 Elm St,9001,1,Mr John Smith,08144886622110,Booking ABABAB,HKG,AKL,LHR,KUL,SFO,NZ,NZ,NZ,NZ,01/06/08,02/06/08,03/06/08,04/06/08,1100,1200,1300,1400,C,C,C,O,O,O,X,AF,BF,CF,DF,1001,1002,1003,1004,1,00, APPROVED,A00002,MI20283191AD2AD4,20080423,121021,20080424

The output format has the following properties in addition to the input message -

Authorized (1 or 0), ReCo, Response Text, Authorization Code, DpsTxnRef, Date, Time, DateSettlement

MESSAGE FIELD PROPERTIES

AcquirerDate (output) - *Max 8 bytes*

Contains the date the transaction was processed in YYYYMMDD format. This field may be blank if the transaction was rejected locally or otherwise not processed by the bank host.

AcquirerTime (output) - *Max 8 bytes*

Contains the date the time of the day the transaction was processed in HHMMSS format. This field may be blank if the transaction was rejected locally or otherwise not processed by the bank host.

Amount (input) - *Max 13 characters*

Set the amount to be charged or refunded (depending on the TxnType). Format is d.cc (d=dollars, c=cents). Max amount is 99999.99

AVS Post Code (output) - *Datatype: BSTR Max 20 bytes*

Address Verification System property. Post Code that is listed on the customer's bank statement.

AVS StreetAddress (output) - *Datatype: BSTR Max 60 bytes*

Address Verification System property. Address that is listed on the customer's bank statement.

AVS Action (output) - *Datatype: INT Max 1 bytes*

Address Verification System property. Values are 0,1 & 2.

0 - do not check AVS details with acquirer, but pass them through to Payment Express only.

1 - Attempt AVS check. If the acquirer doesn't support AVS or is unavailable, then transaction will proceed as normal. If AVS is supported it will check the transaction and give the result.

2 - The transactions needs to be checked by AVS, even if isn't available, otherwise the transaction will be blocked.

The value will most likely be 1 for most circumstances.

BillingId (input) - *Max 32 characters*

This is an identifier generated by the merchant application that is used to identify a customer or billing entry and can be used as input instead of card number and date expiry for subsequent billing transactions.

CardHolderName (output) - *Max 64 characters*

The cardholder name as it appears on customer card.

CardNumber (input) - *Max 20 characters*

The card number. No leading or embedded blanks are permitted. Must contain a numeric value.

Corporate Purchase Card (input) - *Mandatory 30 characters*

Amex Corporate Purchase Card transactions. Extended data, which will appear on corporate cardholders statements if your merchant account supports it. This field needs to be exactly 30 characters, with the first character being an "A". The CPC field contains 2 corporate purchase card reference fields, with the 1st 9 characters after the "A" belonging to Corporate Purchase Card data 1 and the last 20 characters of the CPC input field belonging to Corporate Purchase Card data 2. You will need to pad if your reference is shorter than the required field length.

Example - P,9997,Reference,4111111111111111,1010,1.23,,A4387436 Payment March ,TEST NAME

DateExpiry (input) - *Max 4 bytes*

Indicates card expiry date. Format is MMY where MM is month 01-12 and Year 00-99. do not insert "/" or other delimiter. Some acquirers do not require this field - contact DPS for more details. Also not required if BillingId/DpsBillingId is used.

DateSettlement (output) - *Max 8 bytes*

Indicates Date of settlement (when money will be deposited in Merchant bank account) if this is supported by the Acquirer, otherwise contains the date the transaction was processed in YYYYMMDD format.

DpsTxnRef (input/output) - *Max 16 Characters*

Returned for every transaction. If the transaction was approved, DpsTxnRef can be used as input to a Refund or Completion transaction for other DPS products. Used to specify a transaction for refund without supplying the original card number and expiry date. The DpsTxnRef value returned by the original approved Auth transaction must be supplied also when doing a complete transaction.

DpsBillingId (input) - *Max 16 Characters*

When output, contains the Payment Express generated BillingId. Only returned for transactions that are requested by the application with the EnableAddBillCard value set to 1 (true) indicating a token billing entry should be created.

MerchantReference (input) - *Max 32 Characters*

Free text to appear on transaction reports.

ResponseText (output) - *Max 20 Characters*

The Response Text is associated with ResponseCode. For successful transactions this is usually Approved and for unsuccessful transactions this can be a number of texts depending on why the transaction declined. For example it could be Card Expired, Declined, Invalid Card, REFER TO CARD ISSUER, DO NOT HONOUR. All acquirers have their own response texts and should be displayed for better understanding of why the transaction got declined.

ResponseCode (output) - *Max 2 characters*

2 character response code from the bank. Explanation of the ResponseCode is usually provided in the ResponseText.

Result (output) - *Boolean true/false*

Indicates success or failure of the transaction. 1 for successful and 0 for an unsuccessful transaction.

TxnType (input) - *Max 1 Character*

Value	Description
P	Purchase
R	Refund
A	Auth
C	Completion
V	Validate
B	Bill

TROUBLESHOOTING

ERROR_DUPLICATE - If the input file is processed and PxBat renames the file to SampleInputFilename.csv_ERROR_DUPLICATE_20101003191420 then a duplicate filename has been detected. Each filename needs to be unique.

Another reason could be that the content of the input file does not contain the required Line Feed (LF).

Incorrect Example:

```
1 P,9997,Reference,4111111111111111,1010,1.23,,,TEST NAME
```

Correct Example:

```
1 P,9997,Reference,4111111111111111,1010,1.23,,,TEST NAME
2
```

Nothing Happens when an input file is put into the input folder - PxBat monitors the input folder every few seconds. Make sure the file extension of the input file matches the value setup in "FileExtension" e.g. <FileExtension>.csv</FileExtension>. If the file extension is not the same, the file will be ignored. Check if the PxBat service is running. Also check if the login details have been setup.

If you cannot resolve the issue, please contact our E-commerce support team on 0800 PAYMENT (729 6368) or +64 9 309 4693, or email support at support@paymentexpress.com.