

Paystation

Pre-Auth Payment Interface API

Pre-auth payments require a minimum of two transactions, an authorisation transaction followed by one or more capture transactions. Transactions are initiated via an HTTP POST query to the Paystation URL, with the response sent directly back as an XML formatted response which contains the Paystation result fields and data from the banks Internet gateway. You should not save the card number (but may store the first 6 and last 4 digits if you wish) as this is stored at Paystation and a capture token is used to debit the card.

The Pre-Auth process is IP limited – please tell Paystation what IP numbers you will be running your queries from so we can adjust the security settings on the account. If you are currently running any other type of 2 party transactions through our system, then the IP numbers you already have loaded will automatically be included in your allowed list for Pre-Auth payments.

There are two phases for Pre-Auth payments, these are:

1. Authorisation
2. Capture*

* You can capture in multiple stages by making the amount captured less than the amount authorised. The only thing to note is that you must have a unique merchant session number (pstn_ms) for each capture.

The following is an example URL for a Pre-Auth *authorisation* transaction:

```
https://www.paystation.co.nz/direct/paystation.dll?&paystation=&pstn_ms=
my_unique_reference&pstn_am=1000&pstn_pi=alastair_test&pstn_tm=t&pstn_2p=t&L
stn_ex=1305&pstn_cn=5123456789012346&pstn_pa=t
```

After a request is sent Paystation will respond with an XML formatted string. An example of the XML returned is given below:

```
<?xml version="1.0" standalone="yes" ?>
- <response>
  <ec>0</ec>
  <em>Transaction successful</em>
  <ti>0000949857-01</ti>
  <ct>mastercard</ct>
  <merchant_ref />
  <tm>T</tm>
  <MerchantSession>939393939393</MerchantSession>
    <UsedAcquirerMerchantID>TEST850047</UsedAcquirerMerchant
      ID>
  <TransactionID>0000949857-01</TransactionID>
  <PurchaseAmount>1000</PurchaseAmount>
  <Locale>en_NZ</Locale>
  <ReturnReceiptNumber>65</ReturnReceiptNumber>
  <ShoppingTransactionNumber>65</ShoppingTransactionNumber>
  <AcqResponseCode>00</AcqResponseCode>
  <QSIResponseCode>0</QSIResponseCode>
  <CSCResultCode>U</CSCResultCode>
  <AVSResultCode>U</AVSResultCode>
```

```

<TransactionTime>2007-06-20 11:13:14</TransactionTime>
<PaystationErrorCode>0</PaystationErrorCode>
<PaystationErrorMessage>Transaction
    successful</PaystationErrorMessage>
<MerchantReference />
<TransactionMode>T</TransactionMode>
<BatchNumber>20070620</BatchNumber>
<AuthorizeID>000065</AuthorizeID>
<Cardtype>MC</Cardtype>
<Username>850047</Username>
<RequestIP>203.118.134.90</RequestIP>
<RequestUserAgent>Mozilla/4.0 (compatible; MSIE 6.0;
    Windows NT 5.0; APCMAG;
    FunWebProducts)</RequestUserAgent>
<RequestHttpReferrer />
<PaymentRequestTime>2007-06-20
    11:13:10</PaymentRequestTime>
<DigitalOrderTime>2007-06-20 11:13:10</DigitalOrderTime>
<DigitalReceiptTime>2007-06-20
    11:13:14</DigitalReceiptTime>
<IssuerName>unknown</IssuerName>
<IssuerCountry>unknown</IssuerCountry>
</response>

```

The following is an example URL for a Pre-Auth *capture* transaction:

```

https://www.paystation.co.nz/direct/paystation.dll?paystation=&pstn_ms=
my_unique_reference&pstn_am=1000&pstn_pi=alastair_test&pstn_nr=t&pstn_2p=t&p
stn_cp=t&pstn_cx=0000949857-01

```

An example of the XML returned after a successful capture is given below:

```

<?xml version="1.0" standalone="yes" ?>
- <PaystationCaptureResponse>
    <ec>0</ec>
    <em>Transaction successful</em>
    <ti>0000950267-01</ti>
    <ct />
    <merchant_ref />
    <tm>T</tm>
    <MerchantSession>1182226890</MerchantSession>
    <UsedAcquirerMerchantID>vpc</UsedAcquirerMerchantID>
    <TransactionID>0000950267-01</TransactionID>
    <CaptureAmount>500</CaptureAmount>
    <Locale>en</Locale>
    <ReturnReceiptNumber>000000000064</ReturnReceiptNumber>
    <ShoppingTransactionNumber>66</ShoppingTransactionNumber>
    <AcqResponseCode>00</AcqResponseCode>
    <QSIResponseCode>0</QSIResponseCode>
    <CSCResultCode />
    <AVSResultCode />
    <TransactionTime>2007-06-20 11:58:09</TransactionTime>
    <PaystationErrorCode>0</PaystationErrorCode>
    <PaystationErrorMessage>Transaction
        successful</PaystationErrorMessage>
    <MerchantReference />
    <TransactionMode>T</TransactionMode>
    <BatchNumber>20070620</BatchNumber>
    <AuthorizeID />
    <Cardtype />

```

```
<Username>850047</Username>
<RequestIP>203.118.134.90</RequestIP>
<RequestUserAgent>Mozilla/4.0 (compatible; MSIE 6.0;
  Windows NT 5.0; APCMAG;)</RequestUserAgent>
<RequestHttpReferrer />
<PaymentRequestTime>2007-06-20
  11:58:09</PaymentRequestTime>
<DigitalOrderTime>2007-06-20 11:58:09</DigitalOrderTime>
<DigitalReceiptTime>2007-06-20
  11:58:09</DigitalReceiptTime>
<RefundedAmount>0</RefundedAmount>
<CapturedAmount>500</CapturedAmount>
<AuthorisedAmount>1000</AuthorisedAmount>
</PaystationCaptureResponse>
```

Input Variables

✓ = required, ✗ = not required, O = optional

Variable	Value	Description	Auth	Capture
pstn_am	Integer <i>or</i> decimal	Transaction amount. If no Amount Format is specified the amount must be cents (eg. \$12.35 will be passed as 1235)	✓	✓
pstn_pi	String value	Merchant's Paystation ID	✓	✓
pstn_ms	String value (max length 64 char)	Merchant Session – a unique identification code for each transaction request . Used to identify the Pre-Auth Payment when tracing transactions <u>NB</u> : the capture must have a new merchant session number	✓	✓
pstn_cp	Single character 't' or 'T'	Capture Payment flag – tells Paystation this transaction should be treated as a capture payment	✗	✓
pstn_cx	String value	Capture Token – this is the transaction ID from the previous <i>authorisation</i> eg. 0000949857-01	✗	✓
pstn_2p	Single character 't' or 'T'	Two party transaction type. Specifies that you wish to begin a two party transaction	✓	✓
pstn_nr	Single character 't' or 'T'	Tells the Paystation application that this transaction will not be redirected back to the merchants redirect URL.	O	✓
pstn_tm	Single character 't' or 'T'	Test Mode [optional] - sets the Paystation server into Test Mode (for the single transaction only). It uses the merchants TEST account on the VPS server, and marks the transaction as a Test in the Paystation server. This allows the merchant to run test transactions without incurring any costs or running live card transactions.	O	O
pstn_mr	String value (max length 64 char)	Merchant Reference Code [optional] - a non-unique reference code which is stored against the transaction. This can be used to tie the transaction to a merchants customers account, or to tie groups of transactions to a particular ledger at the merchant. This will be seen from Paystation Admin. Merchant_ref can be empty or omitted.	O	O
pstn_af	"dollars.cents" <i>or</i> "cents"	Amount Format [optional] – Tells Paystation what format the Amount	O	O

		is in. If omitted, it will be assumed the amount is in cents		
paystation	<i>empty</i>	Application name “Paystation” must be present in the transaction request. It can have any value although we recommend setting it to “_empty”	✓	✓
pstn_cn	Integer	Card Number – only required on the <i>Authorisation</i> phase	✓	✗
pstn_ex	Integer	Card Expiry – only required on the <i>authorisation</i> phase. The format of which is determined by Date Format	✓	✗
pstn_df	“mmyy” or “yyymm”	Date Format – tells Paystation what format the Card Expiry is in. If omitted, it will be set to YYMM format	O	O
pstn_pa	“t” or “T”	Pre-Auth Payment flag – tells Paystation that this is a pre-auth <i>authorisation</i> payment (account must be in pre-auth mode)	✓	✗

XML response variables

The response is sent as an XML packet. You will be able to extract the response values using the standard tools available within your development environment.

Variable	Description
Username	Paystation ID of the account
UsedAcquirerMerchantID	The acquirer's merchant ID used for the transaction
TransactionID	A string containing the unique transaction ID assigned to the transaction attempt by the Paystation server.
PurchaseAmount	The amount of the transaction, in <i>cents</i> .
Locale	The locale of the transaction. The payment server does support different languages, although this is not currently implemented. Would normally be set to "en"
ReturnReceiptNumber	The RRN number is a virtual terminal counter for the transaction and <i>is not unique</i> .
ShoppingTransactionNumber	Unique bank reference assigned to the transaction
AcqResponseCode	Acquirer's response code. The result code's vary from acquirer to acquirer and is included for debugging purposes. Please process transaction result from the PaystationErrorCode.
QSIResponseCode	Payment Server Response code – the actual raw result from the payment server. Please process transaction result from the PaystationErrorCode.
CSCResultCode	Result of any CSC validation
AVSResultCode	Result of any AVS validation. Not supported in New Zealand
TransactionTime	The time the transaction was initiated at Paystation
PaystationErrorCode	The result of the transaction
MerchantSession	The unique reference for the refund as generated by the merchant
MerchantReference	The merchant reference as generated by the merchant
TransactionMode	Transaction Mode: T = Test. P = Production.
RequestHttpReferrer	The HTTP referrer as reported at time of refund initiation
DigitalOrderTime	The time Paystation generates the encrypted packet to the payment server
DigitalReceiptTime	The time Paystation receives the encrypted packet from the payment server
FuturePaymentToken	The token associated with this card
PaystationErrorMessage	A description of the error code
PaystationErrorMessageExtended	More error information that is only returned on error "7" or errors "-1" types errors
BatchNumber	The Batch number on the Payment Server that this transaction will be added to in order to be processed by the acquiring institution.
AuthorizeID	A code issued by the acquiring payment processor to approve or deny a transaction.
Cardtype	The card type used
CustomerIP	The IP number the customer started the payment from.
CustomerUserAgent	The reported user agent of the customer
PaymentRequestTime	The time the payment request was made of the payment server
PaymentResponseTime	The time a response was received from the payment server
UserAdditionalVars	A node containing any user defined variables that are initially passed to Paystation.

Error Code (EC) and Error Message (EM) values.

EC	EM
0	No error - transaction successful
1	Unknown error
2	Bank declined transaction
3	No reply from bank
4	Expired card
5	Insufficient funds
6	Error communicating with bank
7	Payment server system error
8	Transaction type not supported
9	Transaction failed
10	Purchase amount less or greater than merchant values
11	Paystation couldn't create order based on inputs
12	Paystation couldn't find merchant based on merchant ID
13	Transaction already in progress
14	Transaction could not be found
16	User not allowed to perform refunds
17	Merchant is not allowed to perform refunds
18	Transaction type not specified
101	Merchant has been disabled

Codes 0-9 relate to the response code from the ETSL and bank systems.

Codes 11-18, and 101 would be identified during data validation, and are Paystation generated errors.

Having trouble?

Email us at info@paystation.co.nz or call us on 04 917 8097 or 0800 PAYSTATION (0800 729 782).