

## Paystation

### Future Payments Interface API

Refunds can be initiated via an HTTP GET or POST query to the Paystation URL, with the response sent directly back as an XML formatted response which data from the banks Internet gateway. You do not have to save the card number, this is stored at Paystation and a billing token is used to debit the card in the future.

The Future Payments 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 Future Payments.

There are five different phases for Future Payments, these are:

1. Future Payment Save Only (Create a token for future billing only)
2. Future Payment Initiator (Create a token and process a transaction at the same time)
3. Future Payment Bill (Make a payment given only a token previously stored)
4. Future Payment Update (Update a previously stored token)
5. Future Payment Delete (Delete a previously stored token)

The following is an example URL which is from a Future Payment *Initiator* phase.

[https://www.paystation.co.nz/direct/paystation.dll?paystation=empty&pstn\\_ft=Im%20a%20token&pstn\\_am=153.00&pstn\\_cn=5123456789012346&pstn\\_ex=0513&pstn\\_ct=&pstn\\_af=dollars.cents&pstn\\_ms=my\\_unique\\_reference&pstn\\_pi=pstn\\_testing&pstn\\_fp=t&pstn\\_tm=t&pstn\\_nr=t&pstn\\_2p=t&pstn\\_df=mmyy](https://www.paystation.co.nz/direct/paystation.dll?paystation=empty&pstn_ft=Im%20a%20token&pstn_am=153.00&pstn_cn=5123456789012346&pstn_ex=0513&pstn_ct=&pstn_af=dollars.cents&pstn_ms=my_unique_reference&pstn_pi=pstn_testing&pstn_fp=t&pstn_tm=t&pstn_nr=t&pstn_2p=t&pstn_df=mmyy)

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" ?>
<PaystationFuturePaymentResponse>
  <ec>0</ec>
  <em>Transaction successful</em>
  <ti>0000922872-01</ti>
  <ct>mastercard</ct>
  <merchant_ref />
  <tm>T</tm>
  <MerchantSession>my_unique_reference</MerchantSession>
  <UsedAcquirerMerchantID>TEST850047</UsedAcquirerMerchantID>
  <TransactionID>0000922872-01</TransactionID>
  <PurchaseAmount>15300</PurchaseAmount>
  <Locale>en</Locale>
  <ReturnReceiptNumber>000000001181</ReturnReceiptNumber>
  <ShoppingTransactionNumber>23334</ShoppingTransactionNumber>
  <AcqResponseCode>00</AcqResponseCode>
  <QSIResponseCode>0</QSIResponseCode>
  <CSCResultCode />
  <AVSResultCode />
```

```

<TransactionTime>2007-06-01 11:26:27</TransactionTime>
<PaystationErrorCode>0</PaystationErrorCode>
<PaystationErrorMessage>Transaction successful</PaystationErrorMessage>
<MerchantReference />
<TransactionMode>T</TransactionMode>
<BatchNumber>20070601</BatchNumber>
<AuthorizeID>001181</AuthorizeID>
<Cardtype>MC</Cardtype>
<Username>pstn_testing</Username>
<RequestIP>203.118.134.90</RequestIP>
<RequestUserAgent>Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; .NET CLR 1.1.4322;
.NET CLR 2.0.50727)</RequestUserAgent>
<RequestHttpReferrer />
<PaymentRequestTime>2007-06-01 11:26:24</PaymentRequestTime>
<DigitalOrderTime>2007-06-01 11:26:24</DigitalOrderTime>
<DigitalReceiptTime>2007-06-01 11:26:27</DigitalReceiptTime>
<FuturePaymentToken>Im a token</FuturePaymentToken>
<IssuerName>unknown</IssuerName>
<IssuerCountry>unknown</IssuerCountry>
</PaystationFuturePaymentResponse>

```

The following is an example URL which is from a Future Payment *Initiator* phase.

[https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn\\_pi=paystationID&pstn\\_gi= gatewayID&pstn\\_am=2500&pstn\\_ms=unique\\_reference&pstn\\_fp=t&pstn\\_ft=inserttokenorleaveblank&pstn\\_2p=t&pstn\\_nr=t&pstn\\_mr=payment\\_reference&pstn\\_cn=5123456789012346&pstn\\_ex=1705](https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn_pi=paystationID&pstn_gi= gatewayID&pstn_am=2500&pstn_ms=unique_reference&pstn_fp=t&pstn_ft=inserttokenorleaveblank&pstn_2p=t&pstn_nr=t&pstn_mr=payment_reference&pstn_cn=5123456789012346&pstn_ex=1705)

The following is an example URL which is from a Future Payment *Bill* phase.

[https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn\\_pi=paystationID&pstn\\_gi= gatewayID&pstn\\_am=2500&pstn\\_ms=unique\\_reference&pstn\\_fp=t&pstn\\_ft=savedtoken&pstn\\_2p=t&pstn\\_nr=t&pstn\\_mr=payment\\_reference](https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn_pi=paystationID&pstn_gi= gatewayID&pstn_am=2500&pstn_ms=unique_reference&pstn_fp=t&pstn_ft=savedtoken&pstn_2p=t&pstn_nr=t&pstn_mr=payment_reference)

The following is an example URL which is from a Future Payment *Save Only* phase.

[https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn\\_pi=paystationID&pstn\\_gi= gatewayID&pstn\\_ms=unique\\_reference&pstn\\_fp=t&pstn\\_ft=savedtoken&pstn\\_2p=t&pstn\\_nr=t&pstn\\_mr=payment\\_reference&pstn\\_cn=5123456789012346&pstn\\_ex=1705&pstn\\_fs=t](https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn_pi=paystationID&pstn_gi= gatewayID&pstn_ms=unique_reference&pstn_fp=t&pstn_ft=savedtoken&pstn_2p=t&pstn_nr=t&pstn_mr=payment_reference&pstn_cn=5123456789012346&pstn_ex=1705&pstn_fs=t)

The following is an example URL which is from a Future Payment *Update* phase.

[https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn\\_pi=paystationID&pstn\\_gi= gatewayID&pstn\\_ms=unique\\_reference&pstn\\_fp=t&pstn\\_ft=savedtoken&pstn\\_2p=t&pstn\\_nr=t&pstn\\_mr=payment\\_reference&pstn\\_cn=4987654321098769&pstn\\_ex=1705](https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn_pi=paystationID&pstn_gi= gatewayID&pstn_ms=unique_reference&pstn_fp=t&pstn_ft=savedtoken&pstn_2p=t&pstn_nr=t&pstn_mr=payment_reference&pstn_cn=4987654321098769&pstn_ex=1705)

The following is an example URL which is from a Future Payment *Delete* phase.

[https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn\\_pi=paystationID&pstn\\_gi= gatewayID&pstn\\_ms=unique\\_reference&pstn\\_fp=t&pstn\\_ft=savedtoken&pstn\\_2p=t&pstn\\_nr=t&pstn\\_mr=payment\\_reference&pstn\\_fx=t](https://www.paystation.co.nz/direct/paystation.dll?paystation= empty&pstn_pi=paystationID&pstn_gi= gatewayID&pstn_ms=unique_reference&pstn_fp=t&pstn_ft=savedtoken&pstn_2p=t&pstn_nr=t&pstn_mr=payment_reference&pstn_fx=t)

## Input variables

Variable	Value	Description
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	Merchants Paystation ID
pstn_ms	String value (max length 64 char)	Merchant Session – a unique identification code <b>for each transaction request</b> . Used to identify the Future Payment when tracing transactions
pstn_fp	Single character ‘t’ or ‘T’	Future Payment flag – tells Paystation this transaction should be treated as a future payment
pstn_ft	String value	Future Payment Token <b>[optional]</b> – the token to either load or bill a token. If a token is not specified on the <i>initiation phase</i> , Paystation will generate a 64 char token and hand back with the XML packet.
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.
pstn_tm	Single character ‘t’ or ‘T’	Test Mode <b>[optional]</b> - 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.
pstn_mr	String value (max length 64 char)	Merchant Reference Code <b>[optional]</b> - 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.
pstn_af	“dollars.cents” <i>or</i> “cents”	Amount Format <b>[optional]</b> - Tells Paystation what format the Amount 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. If can have any value although we recommend

		setting it to “_empty”
pstn_cn	Integer	Card Number – required on the <i>Save Only</i> , <i>Initiation</i> and <i>Update</i> phase (if card number is being updated)
pstn_ex	Integer	Card Expiry – required on the <i>Save Only</i> , <i>Initiation</i> and <i>Update</i> phase (if card expiry is being updated). 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
pstn_fs	“t” or “T”	Future Payment Save Only flag <b>[optional]</b> – tells Paystation not to bill the card straight away and to save it for future payments. If this is set and the card details are saved ok, an error 34 will be returned
pstn_fu optional	Single character ‘t’ or ‘T’	Update flag [optional] - This is mandatory for Future Pay Update
pstn_fx optional	Single character ‘t’ or ‘T’	Delete flag [optional] – This will delete a previously stored token. An error 34 will be returned

## XML response variables

After the transaction is processed the POST response will be returned to your Paystation POST response URL.

The response is sent as a browser redirect in the form of a standard POST query in the form of 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.***

<b>EC</b>	<b>EM</b>
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
34	Future Payment Saved Ok
101	Merchant has been disabled

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

Codes 11-18, 34 and 101 would be identified during data validation, and are Paystation generated errors.

### ***Having trouble?***

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