

Go to Dashboard

- [Business Dashboard](#)
- [Developer Dashboard](#)

[Help](#)

- [Dashboard](#)
- [My Account](#)
- [Logout](#)



- Docs  
[Online](#)[In-Person](#)[Multipart](#)[3rd-Party](#)[Payouts](#)[Disputes](#)[Reports](#)[Identity](#)[Docs](#)  
[Archive](#)
- APIs & SDKs  
[REST APIs](#)[JavaScript SDK](#)[NVP/SOAP APIs](#)[Donate SDK](#)[Braintree](#)[GraphQL API](#)
- Tools  
[Integration Builder](#)[Sandbox](#)[Testing Guide](#)[API Executor](#)[Demo Portal](#)[Negative Testing](#)[Credit Card Generator](#)[Webhooks](#)[API Status](#)
- [Support](#)

[Payflow](#) / [Integration Guide](#) / [Test Transactions](#)

# Test Transactions

Last updated: November 7th 2022, @ 2:13:43 pm

Before you activate your website or application for use by buyers, test your integration. A simulated payment network handles transactions, enabling you to verify the configuration and operation of your website or application. No money changes hands.

For detailed steps on how to integrate and test hosted checkout pages, see [Set up and test hosted pages with Payflow Gateway](#).

## Set Up the Payflow Gateway Testing Environment

Before testing transactions be sure you are linked to the test servers.

Direct all transactions to the host URL for testing. See [Host URL Addresses](#). PayPal's simulated network processes transactions directed to the URL.

## Testing Data and Guidelines

- [Processors Other than PayPal](#)

- [Processor is PayPal](#)
- [Little Account Updater](#)

## Processors Other than PayPal

**Note:** If your processor is PayPal but you are not using the PayPal Sandbox for testing, then you'd use the testing parameters in this section too.

Follow these guidelines for testing.

- While testing, use only the credit card numbers for testing. Other numbers produce an error.
- Expiration date must be a valid date in the future. Use the format `mmyy`.
- To view the credit card processor that you have selected for testing, see [PayPal Manager](#).

## Credit Card Numbers for Testing

The following credit card numbers are used for Payflow testing.

### Standard Test Cards

American Express	378282246310005
American Express	371449635398431
American Express Corporate	378734493671000
Diners Club	30569309025904
Discover	6011111111111117
Discover	6011000990139424
JCB	3530111333300000
JCB	3566002020360505
Mastercard	2221000000000009
Mastercard	2223000048400011
Mastercard	2223016768739313
Mastercard	5555555555554444
Mastercard	5105105105105100
Visa	4111111111111111
Visa	4012888888881881
	422222222222

Visa **Note:** Even though this number has a different character count than the other test numbers, it is the correct and functional number.

**HSA / FSA** **Note:** These cards are only supported on Chase Paymentech Salem.

Visa	4999991111111113 or 4999992222222229
Mastercard	5199999999999991 or 5299999999999990

## Result Values Based on Amount Submitted

You can use the amount of the transaction to generate a particular result value. The following table lists the general guidelines for specifying amounts to submit in requests.

Amount	Result
\$0 - \$1000	RESULT value 0 (Approved)
\$1001 - \$2000	Certain amounts in this range return specific PayPal results. You can generate the results by adding \$1000 to that RESULT value. For example, for RESULT value 13 (Referral), submit the amount 1013. If the amount is in this range but does not correspond to a result supported by this testing mechanism, Payflow returns RESULT value 12 (Declined).
\$2001+	RESULT value 12 (Declined)

### Result Values Based on Amount Submitted and Processor

This table lists the RESULT values that you can generate using the amount of the transaction. To generate a specific value, submit an amount of 1000 plus the RESULT value number (for example, submit an amount of 1013 for a RESULT value of 13).

Processing Platform	RESULT Values Available for Testing
American Express	0, 12, 13, 104, 1000
Elavon	0, 12, 13, 104
FISERV North	0, 4, 5, 12, 13, 23, 24, 114, 1000
FISERV Nashville	0, 12, 13, 104
Global Payments	0, 4, 5, 12, 13, 23, 24, 30, 100, 104, 114, 1000
Paymentech Salem	0, 12, 13, 104
Paymentech Tampa	0, 3, 4, 5, 12, 13, 23, 24, 1000
PayPal (Payflow Simulator)	See <a href="#">Using the Payflow Simulator for testing</a>
TSYS Acquiring Solutions	0, 4, 12, 13, 23, 104, 114, 1000
Vantiv	0, 4, 5, 12, 13, 23, 24, 114, 1000

### Result Values Based on Alternate Generation Methods

The following table shows another method for obtaining RESULT values. Servers do not return non-zero RESULT values from processors. Therefore, you cannot simulate non-zero RESULT values using the amount. In some cases, you may obtain certain results using the RESULT value plus 1000 even though this table suggests an alternate means of obtaining the RESULT value.

RESULT value	Definition	How to test using Payflow Gateway
0	Approved	Use an AMT of 1000 or less Credit (C) and force (F) transactions will always be approved regardless of dollar amount or card number
1	User authentication failed	Use an invalid PWD
2	Invalid tender	Use an invalid TENDER, such as G
3	Invalid transaction type	Use an invalid TRXTYPE, such as G
4	Invalid amount	Use an invalid AMT, such as -1
5	Invalid merchant information	Use the AMT=1005. Applies only to the following processors: Global Payments and American Express
7	Field format error	Submit a delayed capture transaction with no ORIGID
12	Declined	Use the AMT=1012 or an AMT of 2001 or more
13	Referral	Use the AMT=1013

RESULT value	Definition	How to test using Payflow Gateway
19	Original transaction ID not found	Submit a delayed capture transaction with an invalid ORIGID
22	Invalid ABA number	Applies only to ACH transactions. Submit an invalid ABA number (eight digits)
23	Invalid account number	Submit an invalid account number, for example, 0000000000000000
24	Invalid expiration date	Submit an invalid expiration date, for example, 0298
25	Transaction type not mapped to this host (Processor)	Submit a transaction for a card or tender you are not currently set up to accept, for example, a Diners card if you aren't set up to accept Diners
29	Invalid XML document	Pass a bad XML document (XMLPay users only)
30	Duplicate Transaction	Use the AMT=1030. Only applies to Global Payments.
50	Insufficient funds available	Use the AMT=1050. Only applies to Paymentech
99	General error	Use the AMT=1099. Only applies to Global Payments.
100	Invalid transaction returned from host (Processor)	Use the AMT=1100. Only applies to Global Payments.
101	Time-out value too small	Set timeout value to 1
103	Error reading response from host (Processor)	Use the AMT=1103
104	Timeout waiting for processor response	Use the AMT=1104
105	Credit error	Attempt to credit an authorization
108	Void error	Attempt to void a captured authorization
111	Capture error	The attempt to capture failed. This may be that the transaction is not an authorization, the attempt to capture an authorization transaction has already been completed, or the amount of the capture is above the allowable limit of the authorization transaction.
112	Failed AVS check	You cannot generate this RESULT value by submitting an amount of 1112, but must submit a value for Address Verification Service that will fail; in production, this error occurs only if your account is configured by PayPal customer service to use the "AVS Deny" feature
113	Cannot exceed sales cap	Applies to ACH transactions only
114	CVV2 Mismatch	Use the AMT=1114. Only applies to TSYS Acquiring Solutions, Merchant e-Solutions and Global Payments.
1000	Generic Host (Processor) Error	Use the AMT=2000. Does not apply to Elavon, American Express, or Global Payments.

### Test the Address Verification Service

The Payflow testing server simulates address verification service by returning a value for AVSADDR based on the first 3 characters of the submitted value for BILLTOSTREET.

The testing server returns a value for AVSZIP based on the submitted BILLTOZIP value as shown in the table.

If BILLTOSTREET starts with 667 or higher or begins with a non-numeric character, then the simulator returns AVSADDR=X, AVSZIP=X.

The following table tests AVSADDR.

Submitted Value for BILLTOSTREET	Example BILLTOSTREET Value	AVSADDR Result
000-333	24285 Elm	Y
334-666	49354 Main	N
667 or higher or begins with a non-numeric character	79232 Maple	X

The following table tests AVSZIP.

Submitted Value for BILLTOZIP	Example BILLTOZIP Value	AVSZIP Result
00000-50000	00382	Y
50001-99999	94303	N
Any value (if street address is 667 or higher or begins with a non-numeric character)	BILLTOSTREET=79232 Maple&BILLTOZIP=20304	X

### Test the Card Security Code

If you submit a value for the card security code, the card holder's bank returns a Yes / No / Not Supported (Y / N / X) response on whether the value matches the number on file at the bank. Card security code is described in "Card Security Code Validation".

**Note:** Some processors will decline (RESULT value 12) a transaction if the card security code does not match without returning a CVV2MATCH value. Test the results and check with your processor to determine whether they support card security code checking.

CVV2 value determine the CVV2MATCH result, as shown here.

#### Test CVV2MATCH

##### CVV2 Value CVV2MATCH Value

000	Y
001-300	Y
301-600	N
601 or higher	X

### Processor is PayPal

For the PayPal processor, there were two ways of testing based on how your account is setup:

- Using the Payflow simulator
- Using the PayPal sandbox

To verify which one is being used do the following:

1. Login to [PayPal Manager](#).
2. Click on **Service Settings**.
3. Click on **Set Up** under *Hosted Checkout Page*.
4. Verify if an email is listed under **PayPal Sandbox email address**.

If an email address is listed, you are using the PayPal Sandbox and use the data below; otherwise use the testing data and guidelines under [Processors Other than PayPal](#).

**Note:** Regardless of which testing service you are using, see [PayPal Credit Card Transaction Request Parameters](#) for the request parameters specific to the PayPal Processor.

## Using PayPal Sandbox for Testing

**Important:** Payflow uses a set of specific credit card numbers for testing. However, PayPal allows you to generate card details which can be "real" numbers. Since PayPal requires you to setup two different accounts for production and sandbox, this doesn't cause any issues. However, with Payflow you use the same account for both production and pilot (sandbox) testing. The problem is that if you test using generated credit card numbers and you forgot to move your application from pilot to production, real credit cards will be approved, but will be invalid as they were posted to the pilot servers. **You must make sure that once your testing is complete that you change the host URL from pilot to the production URLs.**

For testing parameters for PayPal Sandbox using the following:

- Use the [Credit Card Generator for Testing](#).
- Use the [negative tests for Sandbox](#).

## Using the Payflow Simulator for testing

The testing data below should only be used if you are using the Payflow Simulator and not the PayPal Sandbox.

### Result Values Based on Amount

The following table shows another method for obtaining RESULT values. The servers do not return non-zero RESULT values from processors. Therefore you cannot simulate non-zero RESULT values using the amount. In some cases, you may obtain certain results using the RESULT value plus 1000 even though this table suggests another means of obtaining the RESULT value.

Result	Definition	How to test
0	Approved	Use an AMOUNT of 10000 or less
3	Invalid transaction type	Use the AMOUNT 10402 Use any of these as AMOUNT:
		<ul style="list-style-type: none"> <li>• 10400</li> <li>• 10401</li> <li>• 10403</li> <li>• 10404</li> </ul>
		Use any of these as AMOUNT:
5	Invalid merchant information	<ul style="list-style-type: none"> <li>• 10548</li> <li>• 10549</li> </ul>
		Use any of these as AMOUNT:
		<ul style="list-style-type: none"> <li>• 10405</li> <li>• 10406</li> <li>• 10407</li> <li>• 10408</li> </ul>
7	Field format error	

Result	Definition	How to test
		<ul style="list-style-type: none"> <li>• 10409</li> <li>• 10410</li> <li>• 10412</li> <li>• 10413</li> <li>• 10416</li> <li>• 10419</li> <li>• 10420</li> <li>• 10421</li> <li>• 10509</li> <li>• 10512</li> <li>• 10513</li> <li>• 10514</li> <li>• 10515</li> <li>• 10516</li> <li>• 10517</li> <li>• 10518</li> <li>• 10540</li> <li>• 10542</li> </ul>
		Use any of these as AMOUNT:
12	Declined	<ul style="list-style-type: none"> <li>• 10417</li> <li>• 15002</li> <li>• 15005</li> <li>• 15006</li> <li>• 15028</li> <li>• 15039</li> <li>• 10544</li> <li>• 10545</li> <li>• 10546</li> </ul>
13	Referral	Use the AMOUNT 10422 Use any of these as AMOUNT:
23	Invalid account number	<ul style="list-style-type: none"> <li>• 10519</li> <li>• 10521</li> <li>• 10522</li> <li>• 10527</li> <li>• 10535</li> <li>• 10541</li> <li>• 10543</li> </ul>
		Use any of these as AMOUNT:
24	Invalid expiration date	<ul style="list-style-type: none"> <li>• 10502</li> <li>• 10508</li> </ul>
30	Duplicate Transaction	Use the AMOUNT 10536
105	Credit error	Attempt to credit an authorization
112	Failed AVS check	Use the AMOUNT 10505
114	CVV2 Mismatch	Use the AMOUNT 10504
1000	Generic Host (Processor) Error	Use an AMOUNT other than those listed in this column

## Litle Account Updater

The Litle Automatic Account Updater feature identifies outdated card information, "repairs" it, and substitutes new card information before submitting the transaction to the network. See the [Litle Automatic Account Updater](#) section for more information.

Merchants utilizing this feature should check for the presence of the CCUPDATED=Y response parameter, and if it is returned, should also check for the presence of the ACCT and EXPDATE response parameters to determine what card information has been updated.

Merchants can test their integration for the Litle Automatic Account Updater feature in the Payflow pilot test environment by doing the following.

In the ACCT request parameter, pass one of the following testing card numbers:

Card number passed in ACCT request parameter	Updated card number returned in ACCT response parameter
4111111111111111	4321432143214321
4012888888881881	4012000033330026
5105105105105100	5454545454545454
5560136761278244	5105105105105100

**Note:** Only the last 4-digits of the updated credit card number will be returned.

In the EXPDATE request parameter, pass one of the following expiration dates:

Expiration date passed in EXPDATE request parameter	Updated expiration date returned in EXPDATE response parameter
0000	0919
1213	1218
0120	0150
0230	0250
0340	0350

In the AMT request parameter, pass an amount that falls within one of the following ranges to bring about different account updater test cases:

Amount passed in AMT request parameter	Test case
1000.00 > AMT >= 500.00	Both an updated credit card number and an updated expiration date
500.00 > AMT >= 400.00	Only an updated credit card number
400.00 > AMT >= 300.00	Only an updated expiration date

[ReferencePayPal.comPrivacySupportLegalContact](#)