



Blesta Gateway Documentation

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Introduction:

The Blesta Payment Gateway System is based on a two tier platform: Merchant and Non-Merchant. Merchant Gateways handle transactions completely within Blesta, never allowing the customer to leave the site. Non-Merchant Gateways, on the other hand, link users to another web site, like PayPal, or Google Checkout for example. Due to this logical separation in design, Blesta Gateway files are written in two different formats. For examples of these see `/inc/gateways/merchant/bluepay.class.php` and `/inc/gateways/nonmerchant/paypal.class.php` in your Blesta installation.

Merchant Gateways:

How Merchant Gateways Work:

A Merchant Gateway is passed connection information from Blesta into its constructor that allows it to authenticate with the remote gateway processor in order to run transactions. Once the Gateway has been initialized by Blesta, **set(\$name, \$value)** function calls are made to the Gateway which pass all relevant data required to process the transaction. Once all data has been passed, Blesta calls the **processCard()** function. Both **set(\$name, \$value)** and **processCard()** are required for every Merchant Gateway class.

The `processCard()` function must then make a cURL request to the remote gateway processor and passes all relevant transaction data in the format required by the remote gateway processor. The Merchant Gateway class then waits for the acknowledgement. The Merchant Gateway then returns an array containing information about the transaction. The return array must have the following format:

```
Array (
    [x_response_code] =>
    [x_response_reason_text] =>
    [x_trans_id] =>
)
```

`[x_response_code]` - "1" for approved, "2" for declined, "3" for error.

`[x_response_reason_text]` - This is (usually) returned by the remote gateway processor.

`[x_trans_id]` - This is given by the remote gateway processor as a unique identifier for this transaction.

Writing Your Own:

Every Merchant Gateway must begin with the following comment block:

```
/******  
@name [NAME OF GATEWAY]  
@type Merchant Gateway  
@author [YOUR NAME]  
@date [DATE]  
@version [VERSION]  
@notes For use with Blesta version 1.1.0+  
*****/
```

[NAME OF GATEWAY] – This is the name of the Gateway (ex. Blue Pay)
[YOUR NAME] – This is your name.
[DATE] – This is the date your Gateway was published.
[VERSION] – This is the version of your Gateway.

Every Merchant Gateway must also define the public member functions **set(\$name, \$value)** and **processCard()**. These functions are required in order to send the Gateway class information about the transactions and to initiate the transaction call. For more information on these functions please review the Merchant Gateway class files in `/inc/gateways/merchant/` of your Blesta installation.

Non-Merchant Gateways:

How Non-Merchant Gateways Work:

A Non-Merchant Gateway is passed connection information from Blesta into its constructor that allows it to authenticate with the remote gateway processor. In addition to this, all order data is also passed through the constructor. Order data consist of **iid** (invoice id, only passed when paying a single invoice), **amount** (total transaction amount), **uid** (user id), **description** (item description). Optionally **coupon** and **pending** may also be passed.

The purpose of the constructor is to set all the hidden form fields that the remote gateway processor expects to receive. Both **getFields()** and **getSettingFields()** must be defined by the Gateway. For an example of these functions see `/inc/gateways/nonmerchant/paypal.class.php` of your Blesta installation.

Blesta then handles the display of all hidden form fields. Once the user decides to pay using the Non-Merchant Gateway, a POST request is sent by Blesta containing all the hidden form fields defined by the Non-Merchant Gateway class. Once the form request is received by the gateway processor, a call back request must be sent by the gateway processor to `callback.php`, which is located in your Blesta installation's `public_html` directory. The `callback.php` script expects to receive the name of the gateway file (without the `.class.php` extension, so for example PayPal send calls the callback script **callback.php?gw=paypal**). Additionally, all POST or GET fields returned by the remote gateway processor are also passed to the **process(\$postvars, \$getvars)** member function. This function must be defined and must return an array of the following format when a transaction is completed:

```

Array (
    [amount] =>
    [uid] =>
    [iid] =>
    [type] =>
    [transid] =>
    [message] =>
    [status] =>
    [coupon] =>
)

```

[amount] – This is the total amount processed by the transaction.
 [uid] – The user id.
 [iid] – The invoice id.
 [type] – The type of payment (must be defined in /inc/config.php under PAYTYPES).
 [transid] – The transaction id returned by the remote gateway processor.
 [message] – The message (if any) returned by the remote gateway processor.
 [status] – The status of this transaction (see /inc/config.php PAYSTATUS define).
 [coupon] – The coupon code given for this transaction (if any).

If a transaction takes multiple iterations to complete (see /inc/gateways/nonmerchant/googlecheckout.class.php), then you may return true until the final iteration, otherwise return false on failure. If an array is returned the Blesta callback script will handle the rest of the process of applying the transaction.

Writing Your Own:

Every Non-Merchant Gateway must begin with the following comment block:

```

/*****
@name [NAME OF GATEWAY]
@type Non-Merchant Gateway
@author [YOUR NAME]
@date [DATE]
@version [VERSION]
@notes For use with Blesta version 1.1.0+
*****/

```

[NAME OF GATEWAY] – This is the name of the Gateway (ex. PayPal)
 [YOUR NAME] – This is your name.
 [DATE] – This is the date your Gateway was published.
 [VERSION] – This is the version of your Gateway.

Every Non-Merchant Gateway must also define the public member functions **getFields()**, **getSettingFields()**, and **process(\$postvars, \$getvars)**. For more information on these functions please review the Non-Merchant Gateway class files in /inc/gateways/nonmerchant/ of your Blesta installation.