

GTBill QuickPay API

The GTBill QuickPay API can process your online purchases with a minimal amount of programming.

The QuickPay API uses an HTTP POST to initiate the request to GTBill. This POST can be accomplished with any web programming language, or even a simple web page.

Required Information

Before you will be able to submit transactions to GTBill, you will need a GTBill merchant account for your website. Once you have a merchant account established, GTBill will supply you with a MerchantID and a SiteID. These IDs uniquely identify your websites, customers, and payments.

Finally, you will need the URL to POST transactions to. That URL is:

<https://sale.GTBill.com/quickpay.aspx>

A separate URL for posts from programming languages, such as PHP and ASP.Net, is:

<https://sale.GTBill.com/quickpay2.aspx>

The following fields are required and must be passed to GTBill in the POST:

Field	Description		
MerchantID	Merchant reference ID supplied by GTBill	Guid	Required
SiteID	A site reference ID supplied by GTBill for each of your websites.	Guid	Required
AmountTotal	Itemtotals + Shipping charges	Decimal	Required
CurrencyID	Standard ID for the currency type you are collecting. Common types accepted by GTBill are: <ul style="list-style-type: none">• USD – US Dollars• GBP – British Pounds• EUR – Euros• CAD – Canadian Dollars	String(3)	Required

AmountShipping	The total amount for shipping. This amount must be added to the item purchase price in the <i>AmountTotal</i> field.	Decimal	Required
ReturnURL	The complete URL you would like your customers directed to when they have completed their purchase.	String	Required
ItemAmount[<i>n</i>]	[The TOTAL amount of the <i>n</i> th product in the shopping cart, where <i>n</i> represents the number of item in the shopping cart, starting with 0. This amount should be the unit cost for the product multiplied by the quantity. For example, if a product costs \$5, and 3 are being ordered, 15.00 should be the value in this field.	Decimal	Required
ItemDesc[<i>n</i>]	The description of the <i>n</i> th product in the shopping cart, Where <i>n</i> represents the number of item in the shopping cart, starting with 0.	String	Required
ItemName[<i>n</i>]	The name of the <i>n</i> th product in the shopping cart, Where <i>n</i> represents the number of item in the shopping cart, starting with 0.	String	Required
ItemQuantity[<i>n</i>]	The quantity of the <i>n</i> th product in the shopping cart, where <i>n</i> represents the number of item in the shopping cart, starting with 0. The quantity must be at least 1 or an error will be returned.	Integer	Required

A full list of required and optional fields can be found in Appendix A.

Configuring Your Site

You will need to add two web pages to your site to process payments. The first page is a purchase form, which is a web page or form that initiates the GTBill payment process. The second page is a complete page, where your customers are returned to after successfully completing a purchase.

PURCHASE FORM

The purchase form can be any page or pages on your site that is capable of posting information to GTBill. It can be written in any web programming language or even simple HTML.

HTML Shopping Cart Form

A simple HTML form can be used for purchases of a single item from your website using GTBill. The following is a multiple item purchase example:

```
<html>
<head>
<title>Buy our T-Shirt</title>
</head>
<body>
<h1>Buy Our T-Shirt</h1>
<form method="post"
action="https://sale.GTBill.com/quickpay.aspx">
<!-- *** Required fields for GTBill -->
<input name="MerchantID" type="hidden" value="<Enter MerchantID>" />
<input name="SiteID" type="hidden" value="<Enter SiteID>" />
<input name="AmountTotal" type="hidden" value="37.99" />
<input name="CurrencyID" type="hidden" value="USD" />
<input name="AmountShipping" type="hidden" value="7.99" />
<input name="ShippingRequired" type="hidden" value="1" />
<input name="ItemName[0]" type="hidden" value="T-Shirt" />
<input name="ItemQuantity[0]" type="hidden" value="2" />
<input name="ItemAmount[0]" type="hidden" value="10.00" />
<input name="ItemDesc[0]" type="hidden" value="Blue T-Shirt" />
<input name="ItemName[1]" type="hidden" value="T-Shirt" />
<input name="ItemQuantity[1]" type="hidden" value="1" />
<input name="ItemAmount[1]" type="hidden" value="20.00" />
<input name="ItemDesc[1]" type="hidden" value="Red T-Shirt" />
<input name="ReturnURL" type="hidden" value="http://www.oursite.com" />

<!-- *** Form submit button -->
<input name="submit" type="submit" />
</form>
</body>
</html>
```

The above example will submit a transaction to purchase two Blue shirts that total \$10.00 and one Red shirt that totals \$20.00 with \$7.99 shipping. Notice the *AmountTotal* equals the *ItemAmounts* + *AmountShipping*.

HTTP Post Form

<https://sale.gtbill.com/quickpay2.aspx>

If you would like more control over the shopping cart process, you will need to write a purchase form in any programming language that is capable of performing an HTTP POST. Common webpage programming languages that support this include: ASP.Net, Classic ASP, and PHP.

The HTTP POST is comprised of name-value pairs (NVP) concatenated into a single string. For example:

NAME1=value1&NAME2=value2&NAME3=value3&...

An NVP request string to GTBill containing base information would be similar to the following:

```
MerchantID=01234567-abcd-0000-0000-000000000000&SiteID=67890123-cdef-0000-0000-000000000000&AmountTotal=0&CurrencyID=USD&AmountShipping=0&ReturnURL=http://oursite.com/complete.htm
```

The NVP request string must be URL-encoded prior to submitting to GTBill. URL-encoding ensures that you can transmit special characters, characters that are not allowed in a URL, and characters that have special meaning in a URL, such as the equal sign and ampersand. URL-encoding can be accomplished with the following methods, based on programming language:

Programming Language	Method
ASP.Net	System.Web.HttpUtility.UrlEncode(buffer, Encoding.Default);
Classic ASP	Server.URLEncode
PHP	urlencode()

The above NVP string URL encoded would be:

```
MerchantID=01234567-abcd-0000-0000-000000000000&SiteID=67890123-cdef-0000-0000-000000000000&AmountTotal=0&CurrencyID=USD&AmountShipping=0&ReturnURL=ht tp%3a%2f%2foursite.com%2fcomplete.htm
```

Notice that the values within the URL, such as *ReturnURL*, are URL encoded, and not the entire string.

Once you have compiled the purchase request, your application must post it to GTBill in the following sequence:

1. Post the request to GTBill using HTTP.
2. Receive the Response string from GTBill.
3. Redirect the client to GTBill.

The response string received from your post to GTBill will an NVP string similar to the post. The Response will contain the following fields:

Field	Description
refID	Reference ID for completing the transaction. The customer must be redirected to the GTBill site with the refID appended to the query string of the URL.
Error	Numeric indication of the status of your request. If this value is 0, the request completed successfully
Message	Text message containing a description of any error that occurred.

If you did not receive an error, the refID received in the GTBill response must be appended to the URL so the customer can complete the transaction. The URL containing the refID would look similar to the following:

<https://sale.GTBill.com/quickpay.aspx?refid=1f0b9744-5e35-4c1e-a197-2cc71513c8b5>

Notice that you are redirecting to the quickpay.aspx page.

Complete Page

The complete page can be any page on your website. This page should welcome the customer back and provide any additional information regarding their product purchase.

The URL of the completed page is supplied by your page or application in the *ReturnURL* field.

When a customer has completed the purchase, GTBill will load the designated page on your website and provide the transaction ID and merchant reference supplied in the purchase form. For example: if you provided the following URL in your purchase form –

`http://oursite.com/complete.html`

GTBill would complete the transaction and return the customer to the following ReturnURL:

```
http://oursite.com/complete.html?TransactionID=67890123-  
cdef&MerchantReference=abc123
```

Confirm Page

When a customer has successfully completed a transaction, GTBill will post the transaction details back to a designated page on your site. This page should validate and store the transaction information in your database. The confirm page provides communication between GTBill and your application and does not need to provide user functionality.

The URL of the confirm page is supplied by your page or application in the *ConfirmURL* field. This URL must be supplied and it must be a valid page on your website or application.

Information is posted to the confirm page as standard HTTP POST name-value pairs (NVP) separated by ampersands (&). An example confirm post would be:

```
Amount=17.99&MerchantReference=abc123&TransactionID=4cfdefc3-6ad2-49de-  
a25b-5d0f41e8cd1a
```

The postback will occur immediately after a successful transaction.

See Appendix B for a list of fields posted.

Appendix A

QuickPay POST Fields

Field	Description		
MerchantID	Merchant reference ID supplied by GTBill	Guid	Required
SiteID	A site reference ID supplied by GTBill for each of your websites.	Guid	Required
AmountTotal	Total	Decimal	Required
CurrencyID	Standard ID for the currency type you are collecting. Common types accepted by GTBill are: <ul style="list-style-type: none"> • USD – US Dollars • GBP – British Pounds • EUR – Euros • CAD – Canadian Dollars 	String(3)	Required
AmountShipping	The total amount for shipping. This amount must be added to the item purchase price in the <i>AmountTotal</i> field.	Decimal	Required
ReturnURL	The complete URL you would like your customers directed to when they have completed their purchase.	String	Required
ItemAmount[<i>n</i>]	[The TOTAL amount of the <i>n</i> th product in the shopping cart, where <i>n</i> represents the number of item in the shopping cart, starting with 0. This amount should be the unit cost for the product multiplied by the quantity. For example, if a product costs \$5, and 3 are being ordered, 15.00 should be the value in this field.	Decimal	Required
ItemDesc[<i>n</i>]	The decription of the <i>n</i> th product in the shopping cart, Where <i>n</i> represents	String	Required

	the number of item in the shopping cart, starting with 0.		
ItemName[<i>n</i>]	The name of the <i>n</i> th product in the shopping cart, Where <i>n</i> represents the number of item in the shopping cart, starting with 0.	String	Required
ItemQuantity[<i>n</i>]	The quantity of the <i>n</i> th product in the shopping cart, where <i>n</i> represents the number of item in the shopping cart, starting with 0. The quantity must be at least 1 or an error will be returned.	Integer	Required
FirstName	Customer first name	String(50)	Optional
LastName	Customer last name	String(50)	Optional
Address1	Customer address	String(50)	Optional
Address2	Customer address continued	String(50)	Optional
City	Customer city	String(20)	Optional
State	Customer state	String(20)	Optional
PostalCode	Customer Postal/Zip Code	String(10)	Optional
Country	Customer Country ISO 3166-1 alpha-2 format	String(2)	Optional
Email	Customer email address	String(50)	Optional
PhoneNumber	Customer phone number	String(16)	Optional
RequireShipping	'0' default – hides shipping option '1' – requires shipping	Integer	Optional
ConfirmUrl	Transaction Postback URL See Appendix B for postback fields	String	Optional
MerchantReference	An identifier used to identify the items purchased	String(50)	Optional

Appendix B

Confirm Postback Fields

An HTTP POST is performed to the *ConfirmURL* page upon successful completion of a transaction.

To verify that the post came from a GTBill system you can compare the postback ip to the list located here: https://sale.gtbill.com/ip_list.txt

Field	Description	Type
Amount	The amount charged	Decimal
MerchantReference	Reference generated by the merchant to correlate the purchase to the GTBill transaction.	String
TransactionID	The ID of the transaction in the GTBill sale application	String
CardMask	The credit card number	String
CustomerEmail	Customer Email Address	String
CustomerFirstName	Customer First Name	String
CustomerLastName	Customer Last Name	String
SiteName	The name of the site corresponding to the SiteID	String
SiteID	The GTBill site identifier	Guid
ShippingFirstName	The first name for shipping	String
ShippingLastName	The last name for shipping	String
ShippingAddress1	The shipping address	String
ShippingAddress2	The shipping address continued	String
ShippingCity	The shipping city	String
ShippingState	The shipping state	String
ShippingCountry	The shipping country	String
ShippingPostalCode	The shipping Postal/Zip code	String