AlliedWallet QuickPay API

The AlliedWallet QuickPay API can process your online purchases with a minimal amount of programming. Both shopping cart and subscription transactions can be submitted.

The QuickPay API uses an HTTP POST to initiate the request to AlliedWallet. 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 AlliedWallet, you will need an AlliedWallet merchant account for your website. Once you have a merchant account established, AlliedWallet will supply you with a MerchantID and a SiteID. These IDs uniquely identify your websites, customers, and payments.

If your website is a subscription site, you will also need AlliedWallet to configure subscription groups for you. The groups will set the level, pricing, and term for your subscriptions. For example, you may have a standard subscription that costs $19.95 per month, and a premium subscription that costs $99.99 per quarter. AlliedWallet will automatically handle rebilling your customer at the end of each term period.

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

https://sale.alliedwallet.com/quickpay.aspx

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

https://sale.alliedwallet.com/quickpay2.aspx

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

Field	Description	Required/ Optional
MerchantID	Merchant reference ID supplied by AlliedWallet	Required
SiteID	A site reference ID supplied by AlliedWallet for each of your websites.	Required

AmountTotal	Total amount of transactions in POST. This number will be verified by AlliedWallet before the transaction can be completed. NOTE: This field must be completed and may be “0” for subscription purchases if you wish to allow your customers to select their subscription option.	Required
CurrencyID	Standard ID for the currency type you are collecting. Common types accepted by AlliedWallet are: • USD – US Dollars • GBP – British Pounds • EUR – Euros • CAD – Canadian Dollars	Required
AmountShipping	The total amount for shipping. This amount must be added to the item purchase price in the *AmountTotal* field. This field must be completed and will be “0” for subscription purchases.	Required
ReturnURL	The complete URL you would like your customers directed to when they have completed their purchase.	Required

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 AlliedWallet 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 AlliedWallet. It can be written in any web programming language or even simple HTML. Purchase forms can be constructed to purchase recurring subscriptions or products through AlliedWallet.

HTML Subscription Form

The following form includes all of the necessary information to purchase a subscription to your site through AlliedWallet:

```
<html>
<head>
<title>Subscribe to Our Website</title>
</head>
<body>
<h1>Subscribe to Our Website</h1>
<p>Buy a subscription to our site.</p>
<form method="post"
action="https://sale.alliedwallet.com/quickpay.aspx">
<!-- *** Required fields for AlliedWallet -->
<input name="MerchantID" type="hidden"
value="01234567-abcd-0000-0000-000000000000" />
<input name="SiteID" type="hidden"
value="67890123-cdef-0000-0000-000000000000" />
<input name="AmountTotal" type="hidden" value="0" />
<input name="CurrencyID" type="hidden" value="USD" />
<input name="AmountShipping" type="hidden" value="0" />
<input name="ReturnURL" type="hidden"
value="http://oursite.com/complete.htm" />
<input name="ConfirmURL" type="hidden"
value="http://oursite.com/confirm.htm" />
<!-- *** Optional fields for AlliedWallet -->
<input name="MerchantReference" type="hidden" value="abc123" />
<!-- *** Form submit button ->
<input name="submit" type="submit" />
</form>
</body>
</html>
```

The above form HTML also includes an optional “MerchantReference” field. This field can be used to correlate the AlliedWallet purchase transaction with data from your website application.

Your web designer and programmer will need to furnish your site with a similar purchase form that includes all of the necessary styling required to match your site.

Additional fields can be supplied in the form to provide the membership subscription GroupID and PricingID. See the Field Reference in the last section.

HTML Shopping Cart Form

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

```
<html>
<head>
<title>Buy our T-Shirt</title>
</head>
<body>
<h1>Buy Our T-Shirt</h1>
<p>Buy a subscription to our site.</p>
<form method="post"
action="https://sale.alliedwallet.com/quickpay.aspx">
<!-- *** Required fields for AlliedWallet -->
<input name="MerchantID" type="hidden"
value="01234567-abcd-0000-0000-000000000000" />
<input name="SiteID" type="hidden"
value="67890123-cdef-0000-0000-000000000000" />
<input name="AmountTotal" type="hidden" value="17.99" />
<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="1" />
<input name="ItemAmount[0]" type="hidden" value="10.00" />
<input name="ItemDesc[0]" type="hidden" value="Our T-Shirt" />
<input name="NoMembership" type="hidden" value="1" />
<input name="ReturnURL" type="hidden"
value="http://oursite.com/complete.htm" />
<input name="ConfirmURL" type="hidden"
value="http://oursite.com/confirm.htm" />
<!-- *** Optional fields for AlliedWallet -->
<input name="MerchantReference" type="hidden" value="abc123" />
<!-- *** Form submit button ->
<input name="submit" type="submit" />
</form>
</body>
</html>
```

The above example will submit a transaction to purchase a single item for $10.00 with $7.99 shipping. Notice the *AmountTotal* equals the *ItemAmount* + *AmountShipping*.

HTTP Post Form

If you would like more control over the subscription or 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 AlliedWallet 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 AlliedWallet. 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 AlliedWallet in the following sequence:

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

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

Field	**Description**	**Required/ Optional**
refID	Reference ID for completing the transaction. The customer must be	Required

	redirected to the AlliedWallet 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	Required
Message	Text message containing a description of any error that occurred.	Required

If you did not receive an error, the refID received in the AlliedWallet 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.alliedwallet.com/quickpay2.aspx?refid=1f0b9744-5e35-4c1e-a197-2cc71513c8b5

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 or subscription purchase. Additional information would include: shipping information, subscription activation, etc.

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

When a customer has completed the purchase, AlliedWallet 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
```

AlliedWallet 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, AlliedWallet 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 AlliedWallet 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. If a URL is not supplied or it does not point to a page on your site, the transaction will not be completed successfully. However, if you do not wish to save the transaction information, this page can be a simple, blank HTML page.

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&PayReferenceID=b9ab260b-d690-
4507-8d56-8bd92c4c132a&TransactionID=4cfdefc3-6ad2-49de-a25b-
5d0f41e8cd1a
```

Membership Postback

If your website is a subscription or membership site, you can elect to have AlliedWallet post subscriber membership event information to a designated page on your website. In order to receive membership postback events, you must provide AlliedWallet merchant support with a postback URL for the postback event. After providing the postback URL, AlliedWallet will provide you with a postback key for validating events are from AlliedWallet.

Subscriber events posted to your website include: Add, Cancel, Deactivate, and Password. The Add event is posted when a new customer has completed a subscription purchase and an account is created for your website. The Cancel event is posted when a customer cancels their subscription to your site. The Deactivate event is posted when you deactivate a customer subscription from the merchant terminal. The Password event is posted when the customer subscription account password has changed.

The following fields are transmitted by AlliedWallet in a membership postback event.

Field	Description	Type	Postback Events
Username	Subscriber username	String	Add, Cancel, Deactivate, Password
Email	Subscriber email address	String	Add, Cancel, Deactivate, Password
FirstName	Subscriber first name	String	Add, Cancel, Deactivate

LastName	Subscriber last name	String	Add, Cancel, Deactivate
MemberID	Subscriber unique ID assigned by AlliedWallet	Integer	Add, Cancel, Deactivate, Password
TransactionID	Transaction that prompted the subscriber change	String	Add, Cancel
Password	Subscriber password	String	Add, Password
GroupID	ID for the payment group assigned to the site	Integer	Add
PriceID	ID for the payment assigned to the site	Integer	Add
action	Type of request post. Possible values are: “Add”, “Cancel”, “Deactivate”, “Password”	String	Add, Cancel, Deactivate, Password
key	Encryption key assigned by AlliedWallet	String	Add, Cancel, Deactivate, Password

Fields are transmitted in name-value pairs (NVP).

Once your membership page receives a post from AlliedWallet, your page must transmit an acknowledgement response. The acknowledgement response is a colon delimited string containing *status* and a *message*. The status must be 0 if the post failed, and 1 if successful. The message must contain a description of the error if the post failed. For example, a successful acknowledgement string would be:

```
1:Success
```

An unsuccessful acknowledgement would be:

```
0:User does not exist
```

Reference

POST Fields

Field	Description	Type	Required/ Optional
Address	Billing address.	String	Optional
Address2	Billing address2.	String	Optional
AmountShipping	The total amount for shipping. This amount must be added to the item purchase price in the *AmountTotal* field. This field must be completed and will be “0” for subscription purchases.	Decimal	Required
AmountTotal	Total amount of shopping cart or subscription items in transaction. This number will be verified by AlliedWallet before the transaction can be completed. NOTE: This field must be completed and may be “0” for subscription purchases if you wish to allow your customers to select their subscription option.	Decimal	Required
CartItem[*n*]	[Shopping cart only] A single field containing shopping cart item name, quantity, and total amount in a comma separated string. For example: `t-shirt,1,19.99` This field can be used instead of *ItemName*, *ItemQuantity*, and *ItemAmount* above. This can be used to send a	String	Optional

	selection from a dropdown list or radio buttons on an HTML form.		
City	Billing city.	String	Optional
ConfirmURL	Upon successful completion of a transaction, the details of the transaction will be posted to this URL.	String	Required
Country	Billing 2-character country code.	String	Optional
CurrencyID	Standard ID for the currency type you are collecting. Common types accepted by AlliedWallet are: • USD – US Dollars • GBP – British Pounds • EUR – Euros • CAD – Canadian Dollars	String	Required
Email	Billing email address.	String	Optional
FirstName	Billing first name.	String	Optional
GroupID	[Membership subscription only] Group identifier supplied by AlliedWallet for a subscription priceing. If the GroupID is not supplied, AlliedWallet will allow the customer to choose from all available subscription groups and pricing.	Integer	Optional
ItemAmount[*n*]	[Shopping cart only] The TOTAL amount of the nth product in the shopping cart, where *n* 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 feld.	Decimal	Required[1]
ItemDesc[*n*]	[Shopping cart only] The	String	Optional

	decription of the nth product in the shopping cart, Where *n* represents the number of item in the shopping cart, starting with 0.		
ItemName[*n*]	[Shopping cart only] The name of the nth product in the shopping cart, Where *n* represents the number of item in the shopping cart, starting with 0.	String	Required[1]
ItemQuantity[*n*]	[Shopping cart only] The quantity of the nth product in the shopping cart, where *n* 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[1]
LastName	Billing last name.	String	Optional
MemberUsername	[Membership subscription only] Username of the subscriber. This field is populated if you wish to control membership account creation from your own site.	String	Optional
MerchantID	Merchant reference ID supplied by AlliedWallet	String	Required
MerchantReference	Reference generated by the merchant to correlate the purchase to the AlliedWallet transaction. This value is returned to the merchant complete page query string (URL)	String	Optional
NoMembership	Indicator whether a membership or subscription is required. If this value is > 0, the user will NOT be prompted to purchase a subscription.	Integer	Optional
PostalCode	Billing postal code.	String	Optional

[1] Required for shopping cart transactions.

PriceID	[Membership subscription only] Pricing identifier supplied by AlliedWallet for a subscription price and term. If the PriceID is not supplied, AlliedWallet will allow the customer to choose from available subscription options within a group, if *GroupID* is supplied.	Integer	Optional
RequireShipping	Indicator whether shipping is required. Online subscription and service purchases typically do not require shipping. If this value is > 0, then the customer will be prompted for shipping information.	Integer	Optional
ReturnURL	The complete URL you would like your customers directed to when they have completed their purchase.	String	Required
ShowUserNamePassword	[Membership subscription only] Indicator whether member information is displayed. If this value is > 0, then the username and password will be displayed. Username and password will be displayed by default.	Integer	Optional
SiteID	A site reference ID supplied by AlliedWallet for each of your websites.	String	Required
State	Billing state.	String	Optional

Response Fields

Response fields are returned when performing an HTTP POST to AlliedWallet from a custom programmed application.

Field	**Description**	**Type**	**Required/ Optional**
refID	Reference ID for completing the transaction. The customer must	String	Required

	be redirected to the AlliedWallet 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	Integer	Required
Message	Text message containing a description of any error that occurred.	String	Required

Confirm Postback Fields

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

Field	Description	Type	Required/ Optional
Amount	Total amount of shopping cart or subscription items in transaction.	Decimal	Required
MerchantReference	Reference generated by the merchant to correlate the purchase to the AlliedWallet transaction.	String	Required
PayReferenceID	The ID of the transaction in the AlliedWallet merchant system.	String	Required
TransactionID	The ID of the transaction in the AlliedWallet sale application	String	Required

ASP.Net Post Sample

```
    //*** Create the request ***/
    StringBuilder formPost = new StringBuilder();
    formPost.Append("MerchantID=");
    formPost.Append(System.Web.HttpUtility.UrlEncode("ce29a000-0000-0000-0000-
0001b150d8a6"));
    formPost.Append("&");
    formPost.Append("SiteID=");
    formPost.Append(System.Web.HttpUtility.UrlEncode("430da000-0000-0000-0000-
000e4b83f73f"));
    formPost.Append("&");
    formPost.Append("AmountTotal=");
    formPost.Append("0");
    formPost.Append("&");
    formPost.Append("ReturnURL=");
```

```
formPost.Append(System.Web.HttpUtility.UrlEncode("http://oursite.com/complete.a
spx"));
    formPost.Append("&CurrencyID=USD&AmountShipping=0");

    //*** Post the transaction ***/
    string url = "https://sale.alliedwallet.com/quickpay2.aspx";
    System.Net.HttpWebRequest req =
(System.Net.HttpWebRequest)System.Net.HttpWebRequest.Create(url);
    req.Method = "POST";
    req.ContentType = "application/x-www-form-urlencoded";
    req.ContentLength = formPost.Length;
    System.IO.StreamWriter sw = new
System.IO.StreamWriter(req.GetRequestStream());

    sw.Write(formPost.ToString());
    sw.Flush();
    sw.Close();

    //*** Read the response ***/
    System.Net.WebResponse resp = req.GetResponse();
    System.IO.StreamReader sr = new
System.IO.StreamReader(resp.GetResponseStream());

    NameValueCollection respVals = new NameValueCollection();
    string[] respArr = sr.ReadToEnd().Split(new char[] {'&'});
    for (int i = 0; i < respArr.Length; i++)
    {
        string[] pair = respArr[i].Split(new char[] { '=' });
        respVals.Add(pair[0], pair[1]);
    }
    int result = int.Parse(respVals["Error"]);
    if (result == 0)
    {
        //*** Redirect the customer ***/
        Response.Redirect(url + "?refID=" + respVals["refID"]);
    }
```