PayWay

API for PHP

Version 1.2 26 Aug 2009

Document History

Date	Version	Description
20 Dec 2005	1.0	Initial Version
20 May 2007	1.1	Added additional convenience functions
26 Aug 2009	1.2	Updated troubleshooting
26 Jun 2014	1.3	Added requirement for openssl

Table of Contents

1 Introduction

This document gives details on using the PayWay API from a PHP application. It details the requirements of your system and gives instruction on how to integrate the PHP API into your system. This document does not contain any details about the API parameters. That information is contained in the "PayWay API Developer's Guide" document which is available for download from the PayWay site in the Downloads section.

2 Installation

2.1 Requirements

The PayWay API for PHP requires PHP 4.0.6 or higher.

You must install the "libcurl" and "openssl" packages for PHP. See http://www.php.net/manual/en/ref.curl.php and http://www.php.net/manual/en/ref.openssl.php.

Refer to Section 2.1 in the "PayWay API Developer's Guide" document for information on how to setup the API.

2.2 What the API Distribution File Contains

The PayWayAPI_php.zip file you download from the PayWay site contains the files and folders listed below:

File/Folder	Description
Qvalent_PayWayAPI.php	The PayWay API for PHP. This source file contains the `Qvalent_PayWayAPI` class you will call from your application code.
cacerts.crt	The Certificate Authority file that you must reference when calling the "initialise" method.
PayWay_API_for_PHP.pdf	This document.
readme.txt	The quick start documentation file with simple instructions for using the example code.
version.txt	The file containing the version of the API that you are using.
examples/	The folder containing the example program demonstrating the use of the `Qvalent_PayWayAPI` object.
images/	The folder containing card scheme logos. You should display the appropriate logos on your web site to indicate which card types you accept.

2.3 Installation Procedure

- Copy the `Qvalent_PayWayAPI.php` file to your web server.
- Include the `Qvalent_PayWayAPI.php` file in your payments page as follows:

```
<?php include 'Qvalent_PayWayAPI.php' ?>
```

2.4 Initialising the PayWayAPI object

Before you can perform transactions with the `Qvalent_PayWayAPI` object, you must initialise it with a string of initialisation parameters. Please see section 3.1.3 "Initialising the API" in the "PayWay API Developer's Guide" document.

Important Note: In addition to the initialisation parameters described in the "PayWay API Developer's Guide" document, the PHP API also requires the following parameter.

Name	Description	Required
caFile	The Certificate Authority file containing the list of trusted certificates. Set this to the location of the `cacerts.crt` file from the API distribution.	Yes

Table 2.1 – Extra parameter used by the PHP "initialise" method

Note that after you have initialised the PayWayAPI object, you can call the "processCreditCard" method on it multiple times on the one page. However, you cannot use the object from multiple pages – you must create a new instance of the object each time the page is called.

2.5 Additional Convenience Functions

The API for processing credit card transactions takes a single string argument and returns a single string result. Additional convenience functions are provided in the PHP API for converting between these strings and arrays. You do not have to use these functions – they are provided for your convenience only. See the included example code for more information on how to use these functions.

Function Name	Description
formatRequestParameters	Converts the parameters in the provided array to a string that can be passed to the processCreditCard method. The keys in the array are the parameter names, and the values in the array are the parameter values.
parseResponseParameters	Converts the string response from the processCreditCard method to an array. The keys in the array are the parameter names, and the values in the array are the parameter values.

Table 2.2 – Extra methods in the PHP API

2.6 Using the Example Code

2.6.1 Using the Web Example Code

- Copy the `Qvalent_PayWayAPI.php` file and the contents of the "examples/" directory to your web directory.
- Login to your PayWay facility and download your certificate, save it to your server. Replace "CERT_FILE" with the fully qualified file name of the certificate file in the `processCard.php` file.
- Copy the `cacerts.crt` Certificate Authority file to a secure location on your server. Replace "CA_FILE" with the fully qualified file name of the Certificate Authority file in the `processCard.php` file.
- Choose a log directory and ensure that your web application can write to that directory on the server. Replace "LOG_DIR" with the log directory in the `processCard.php` file.
- Enter your username and password in the `processCard.php` file. You may need to add proxy information to the initialisation parameters, as per section 3.1.3 "Initialising the API" in the "PayWay API Developer's Guide" document.
- Using your web browser, browse to the example index.htm (e.g. http://localhost/card_test/index.htm), then press the Process Capture button. You should receive a successful response from the Qvalent payment server.

3 Troubleshooting

The table below describes some of the common errors you may encounter during your implementation phase, and what to do to resolve them.

Error Description	Suggested Resolution
Class 'Qvalent_PayWayAPI' not found	Ensure that you have included the the Qvalent_PayWayAPI.php file in your PHP page.
Certificate Authority file does not exist	Ensure that the "caFile" initialisation parameter is set correctly for the "initialise" call. Also, ensure that your application is allowed to read this file.
Certificate file does not exist	Ensure that the "certificateFile" initialisation parameter is set correctly for the "initialise" call (i.e. that the value is the location of the certificate file that you have downloaded). Also, ensure that your application is allowed to read this file.
Cannot use logging directory	Ensure that the "logDirectory" initialisation parameter is set correctly for the "initialise" call. Also, ensure that the specified directory is a directory (not a file), and that your application is allowed to write to this directory.

Error Description	Suggested Resolution
[function.fopen]: failed to open stream: Permission denied	Ensure that your application is permitted to write to the directory specified in the "logDirectory" initialisation parameter.
Call to undefined function curl_init()	Check your installation of the libcurl package for PHP. See http://www.php.net/manual/en/ref.curl.php
PHP Startup: Unable to load dynamic library 'c:\php\ext\php_curl.dll' - The specified module could not be found	Check your installation of the libcurl package for PHP. See http://www.php.net/manual/en/ref.curl.php
Error Number: 58, Description: 'unable to use client certificate (no key found or wrong pass phrase?)'	Check your installation of the libcurl package for PHP. See http://www.php.net/manual/en/ref.curl.php Ensure that the "certificateFile" initialisation parameter is set correctly for the "initialise" call (i.e. that the value is the full file-path to the ccapi.pem certificate file that you downloaded). Also, ensure that your application is allowed to read this file.
Response.responseCode = QH (Incorrect Customer Username or Password)	Ensure that you have used the correct username and password in the request parameters (i.e. ensure that you have replaced "USER" and "PASS" in the example code).
response.responseCode = QK (Unknown Customer Merchant)	Ensure that the "customer.merchant" request parameter is set to "TEST" (i.e. your test merchant id).
response.responseCode = QJ (Invalid Customer Certificate)	Ensure that you have used the correct certificate file in the "initialise" call (i.e. the "certificateFile" initialisation parameter points to the correct certificate file).
response.responseCode = QU (Unknown Customer IP Address)	The IP address listed in the error message should be added to the IP address list on the PayWay web site. This is found on the "Security" page under the "Setup API" heading.
response.responseCode = QI (Transaction Incomplete)	Check the log file for more information. The most likely cause is that you have not specified the proxy information correctly. Another common cause is that your firewall is not configured to allow outbound SSL connections on port 443.
Error Number: 6, Description: 'Couldn't resolve host 'www.payway.com.au''	Check your proxy configuration.

See Appendix A of the "PayWay API Developer's Guide" document for more information about response codes.