



Paythem.Net.Node.JS

This document contains the details of the PayThem.Net NodeJS module.



Version Control

Revision	Changes	Dated
<i>Rev 0</i>	Creation of Node.JS documentation	2021/07/29
<i>Rev 1</i>	Removal of get_ErrorDescription Addition of get_ProductFormats	2021/09/06

Related Documents

Number	Document Name	Description	Link
1	PayThem.Net - webAPI Developers Guide for API v2.2.2.pdf	Web API Documentation & developer's guide on API calls and structure	API Libraries

Paythem.Net.Node.JS

The Node.JS module lets you create a simple interface between you and the PayThem.Net API server

Function and object definition

PayThem.Net.Api

This is the module that will contain the HTTPS caller, encryption method and content builder. This module must be included and created as an object. Each function to retrieve information will automatically call the PayThem.Net server, and retrieve the content.

Constructor(encryptionKey)

The constructor will require that the encryption key is provided as a parameter. The encryption key will be the private key that will be supplied by PayThem.Net

setServer(timeZone, publicKey, IP)

This function will require that the current user's timezone (as a string) be provided as the first parameter. Example 'Africa/Johannesburg'. Next, is the public key. This too will be provided by PayThem.Net. Lastly, the current user's IP address will be required as the third and final parameter. It is important that this information be set before any call to the server.

setUser(username, password)

This function will require a username to be passed as the first parameter, and the password as the second parameter. The username and password will be provided by PayThem.Net. It is important that this information be set before any call to the server.

onSuccess(callback)

This is a callback function on the successful retrieval of information from the PayThem.Net API server. Note that this is just for a response from the server, and not necessarily a success response. The content returned could still be an error, but from the PayThem.Net API server, and not from the module.

onInternalError(callback)

This is a callback function on an error from the module. If for any reason, any part of the module should fail, this is where the error will be sent.

get_OEMList()

Retrieves a list of all OEM information available to the user that the module is set to use. This function does not require any parameters to be passed.

get_BrandList()

Retrieves a list of all brand information available to the user that the module is set to use. This function does not require any parameters to be passed.



get_ProductList()

Retrieves a full list of all information available to the user that the module is set to use. This function does not require any parameters to be passed.

get_ProductAvailability(productId)

Retrieves the availability of the product. This function requires that the ID of the product to check, be passed as the parameter.

get_AllProductAvailability()

This retrieves product availability in the same way as with the *get_ProductAvailability*, but it will retrieve the details for all products. This function does not require any parameters to be passed.

get_AccountBalance()

Retrieves the current balance of the user that the module is set to use. This will be in the currency specified on the PayThem.Net servers, and a currency will be passed in the results. This function does not require any parameters to be passed.

get_Vouchers(productId, quantity, reference)

This is the function to call to purchase a voucher, or multiple vouchers of the same product. This function requires that the ID of the product to be purchased, be passed as the first parameter. The quantity of vouchers requested is to be passed as the second parameter, and as the third and final parameter, a reference for the purchase order.

get_FinancialTransaction_ByDateRange(fromDate, toDate)

Retrieves all financial transactions for the user that the module is set to use. The transactions retrieved is limited to the date range passed. Pass a date as the first parameter, this will be where the transaction retrieval will start. Pass a date as the second parameter, this will be where the transaction retrieval will end.

get_SalesTransaction_ByDateRange(fromDate, toDate)

Retrieves all sales transactions for the user that the module is set to use. The transactions retrieved is limited to the date range passed. Pass a date as the first parameter, this will be where the transaction retrieval will start. Pass a date as the second parameter, this will be where the transaction retrieval will end.

get_ProductFormats()

Retrieves all product's voucher's output formats. An ID and a description is retrieved for the output formats registered for vouchers. Each voucher purchase or sales transaction will contain an ID of this value.

liveEnvironment()

This function sets the module to call the production server on all future calls. If this function is not set, all calls will be directed to a PayThem.Net test server.

Examples

Below, you will find a few examples of usage with the JS module.

Retrieving account balance

A simple call to the server to retrieve the balance of the account associated with the user account that the module is set to use.

```
var PTAPI = require('./PayThem.Net.Api'); // Include the module
try {
  var Api = new PTAPI('encryptionKey'); // Create object from exported module
  Api.setServer('Asia/Qatar', 'publicKey', userIP); // Set server call details
  Api.setUser('U00000', 'secretPassword'); // Set the using user
  Api.onSuccess(function (data) { // Async callback function
    handleResponses(data); // Simple data display
  });
  Api.onInternalError(function (data) { // Async callback function
    handleErrors(data); // Simple data display
  });
  Api.get_AccountBalance(); // Retrieve account balance from server
} catch (ee) { // Catch any errors that might occur
  console.error(ee); // Simple data display
}
```

Success response

```
{"SERVER_TRANSACTION_ID":"400","RESULT":"00000","ERROR_DESCRIPTION":"","CONTENT":{"RESELLER_TimeOfRequest":"2021-07-30 8:9:45","RESELLER_Currency":"QAR","RESELLER_Balance":"3608907.68"}}
```

As you can see, the response from the server is a JSON encoded string. This will contain all the details of the call processed.

Error response

```
{"SERVER_TRANSACTION_ID":"762215","RESULT":"00010","ERROR_DESCRIPTION":"Password invalid.,"CONTENT":"ERROR"}
```

Live Environment

The module connects to a PayThem.Net testing environment by default. Once the module has been set up correctly and the calls to the test server have been approved, you may switch over to the live environment with the actions below

Live environment switch

A simple function will switch the module from a testing environment, to the live environment. This can be achieved using the module function of [liveEnvironment\(\)](#).

The switch to the live environment needs to occur before any other call to the server. The live environment will also have different credentials than the ones initially provided for the testing and development with the module.

Once the module object has been instantiated with the 'new' command, the live environment switch can be turned on by calling the function mentioned above. This can be done right after the object is created, or after the server and user settings have been set to the module.

Any call to the server that is placed above this switch, will be sent to a PayThem.Net testing server.

Responses

All responses from the PayThem.Net API server follow the same structure

Documentation

For a full description of the responses received from the server, for each of the functions of this module, please refer to the API documentation listed at the top of this document, or by visiting the link below.

[PayThem.Net - webAPI Developers Guide for API v2.2.2.pdf](#)