MERCHANT SERVICE SOAP API
DEVELOPER REFERENCE
OpenCart (Open Source Shopping)

VERSION 1.0

PREFACE

This document describes the Gogopay Merchant Service SOAP Application Programming Interface (API) and service for OpenCart based e-Commerce website implementation. Since the service receives and sends messages in a soap packet using XML format over HTTPS, its consumption in PHP is fairly simply as XML and SOAP are the industry standards for communication specifically in a cross platform environment. This document will describe how to configure the sample explanation of different pages present in the sample and specific requirement to execute this sample.

This document is written for programmers familiar with web application programming standards such as the Simple Object Access Protocol (SOAP), the Web Services Description Language (WSDL), and XML Schema Definition (XSD) language.

1. GOGOPAY SOAP API OVERVIEW

The Gogopay SOAP API provides programmatic access to Gogopay Payment System implementation on Merchants website. The API is based on open standards known collectively as "Web Services," which gives developers the ability to utilize four open web standards:

- **HTTP** - Hypertext Transfer Protocol - the standard protocol used over Port 80 that traverses firewalls, which is responsible for requesting and transmitting data over the Internet.

- **SOAP** - Simple Object Access Protocol - an XML inherent protocol enclosing a set of rules for data description and process that is the center piece paralleling and complementing the other three mentioned here, with which .NET utilizes nicely with Web Services.

- **XML** - Extensible Markup Language - the prominent markup language that all this commonly understood information is written in

- **WSDL** - Web Services Description Language - an XML based method use in identifying Web Services and their access at runtime. .NET provides a tool called WSDL.exe which essentially makes it quite easy in generating an XML web service, rather an XML file containing all the methods and instructions the Web Service has, using SOAP as its default btw.

1.1. GOGOPAY SOAP API SERVICES FUNCTIONALITY

Like many web services, Gogopay SOAP API is a combination of client-side and server-side schemas, hardware and software servers, and core services.

In an object-oriented processing model, the interface to SOAP requests/responses is an object in your application's native programming language. Your third-party SOAP client generates business-object interfaces and network stubs from Gogopay provided WSDL and XSD files that specify the Gogopay SOAP API message structure, its contents, and the Gogopay API service bindings.

A business application works with data in the form of object properties to send and receive data by calling object methods. The SOAP client handles the details of building the SOAP request, sending it to the Gogopay service, and converting the response back to an object.

1.2. GOGOPAY SOAP API CONCEPTS AND TERMINOLOGY

Here are some basic concepts and terminology relating to Gogopay API service and security authentication.

1.2.1. BASIC GOGOPAY API SET-UP CONCEPTS AND TERMINOLOGY

To implement Gogopay SOAP API service into your website, you have to pass following parameters to QueryStringParamters function:

Note: Merchant can set Optional parameters in his Control Panel; preference will be given to values set in panel, than parameters passed in QueryStringParamters.

Parameter Name	Required	Description
Username	Yes	Merchant API Username (Data type String) – when merchant gets registered from Gogopay Merchant Sign-up, they can create unique Username.
Password	Yes	Merchant Login Password – (Data type String allotted when Username is created)
CurrencyCode	Yes	3 Digit Currency Code – (Data type String), e.g. "USD" for US dollar, "EUR" for euro, "GBP" for great Britain pound, "INR" for Indian rupee. Accepted Currency Code, Reference.
Amount	Yes	Amount in numeric (Data type Decimal - Rounding up to 2 decimal places)
UniversalDTOT	Yes	Shopping Transaction Date – (Universal Date of transaction)
FeeBearer	Optional	Merchant can set Transaction Fee Bearer value in Control Panel or pass following values 1 or 2 or 3. (Data type String) 1 : Merchant Bears transaction Fee 2: Customer Bears transaction Fee 3: Specified at the time of transaction
CaptureMode	Optional	Merchant can set Capture Mode of Payment to: 1:Auto 2:Manual 3:Subscription 4:Specified at the time of transaction
MerchantTransactionID	Optional	Shopping Transaction Id – (Data type String). Merchant can set how he wants to send OrderID in Control Panel. Possible values are: 1:Merchant Specified OrderId in Profile 2:Merchant Specifies OrderId at the time of transaction 3:Gogopay auto Generates OrderId
BillingDetailsSupplied	Optional	Possible values: 1:Merchant supplies Billing customer Address; 2:Gogopay supplies Merchant customer Billing Address

Parameter Name	Required	Description
		3:On call
BillingFirstName	Optional	Billing Customer First Name – (Data type String)
BillingLastName	Optional	Billing Customer Last Name – (Data type String)
BillingAddress1	Optional	Billing Customer Address Line 1 – (Data type String)
BillingAddress2	Optional	Billing Customer Address Line 2 – (Data type String)
BillingCity	Optional	Billing Customer City – (Data type String)
BillingState	Optional	Billing Customer State – (Data type String)
BillingCountry	Optional	Billing Customer Country – (Data type String)
BillingZip	Optional	Billing Customer Zip Code – (Data type String)
BillingPhone	Optional	Billing Customer Phone/Mobile Number – (Data type String)
ShippingDetailsSupplied	Optional	Possible values: 1:Merchant supplies Shipping customer Address 2:Gogopay supplies Merchant customer shipping Address 3:No Shipping address required 4:On call, merchant will set flag isShipAddrSupplied on every call.
ShippingFirstName	Optional	Shipping Customer First Name – (Data type String)
ShippingLastName	Optional	Shipping Customer Last Name – (Data type String)
ShippingAddress1	Optional	Shipping Customer Address Line 1 – (Data type String)
ShippingAddress2	Optional	Shipping Customer Address Line 2 – (Data type String)
ShippingCity	Optional	Shipping Customer City – (Data type String)
ShippingState	Optional	Shipping Customer State – (Data type String)
ShippingCountry	Optional	Shipping Customer Country – (Data type String)
ShippingZip	Optional	Shipping Customer Zip Code – (Data type String)
ShippingPhone	Optional	Shipping Customer Phone/Mobile Number – (Data type String)
OrderLine	Optional	Shopping Cart Products Details – (Data type String)
SuccessURL	Optional	If payment is processed, give page link on Success. – (Data type String)
CancelURL	Optional	If payment fails because of Errors, give page link on Cancel. (Data type String)
IsAdult	Optional	If Shopping Item is Adult Item or Not – (Data type Boolean True or False)
CustomerEmailID	Optional	Customer Email address – (Data type String)

2. REQUIREMENTS

Below you will find the prerequisites to run this sample:

1. Apache web server must be installed on the machine (which can be downloaded from http://www.apache.org) or you can also use XAMPP (which can be downloaded from http://www.apachefriends.org/en/xampp.html).
2. PHP (any version) must be installed on the machine (which can be downloaded from http://www.php.net/downloads.php).
3. Download and install MySQL open source database from http://dev.mysql.com/downloads/ .
4. Download and install OpenCart – open source e-commerce solution from http://www.opencart.com/download .
5. You must be connected to the Internet in order to run this sample as it accesses a web service hosted on Gogopay dedicated server.

Note: Please note that the above mentioned requirements are minimal to run the Gogopay SOAP API payment service into OpenCart (Open Source Shopping).

3. IMPLEMENTATION OF GOGOPAY SOAP API SERVICE IN OPENCART

Step 1 → After unzipping the files in the desired folder of your choice, open the unzipped folder and you will find following:

OpenCart\catalog\language\english\extension\payment\gogopay.php

OpenCart\catalog\extension\payment\gogopay.php

OpenCart\admin\controller\payment_gogopay.php

OpenCart\ admin\template\default\content\payment_gogopay.tpl

OpenCart\admin\language\english\controller\payment_gogopay.php

Step 2 → Next is to copy above files to OpenCart Web Directory.

File 1: OpenCart\catalog\language\english\extension\payment\gogopay.php

To: \catalog\language\english\extension\payment\gogopay.php

File 2: OpenCart\catalog\extension\payment\gogopay.php

To: \catalog\extension\payment\gogopay.php

File 3: OpenCart\admin\controller\payment_gogopay.php

To: \admin\controller\payment_gogopay.php

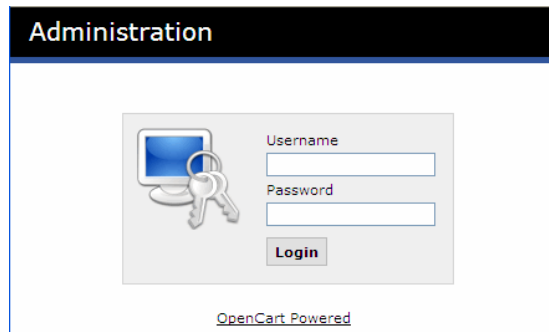*File 4:* OpenCart\ admin\template\default\content\payment_gogopay.tpl

To: \admin\template\default\content\payment_gogopay.tpl

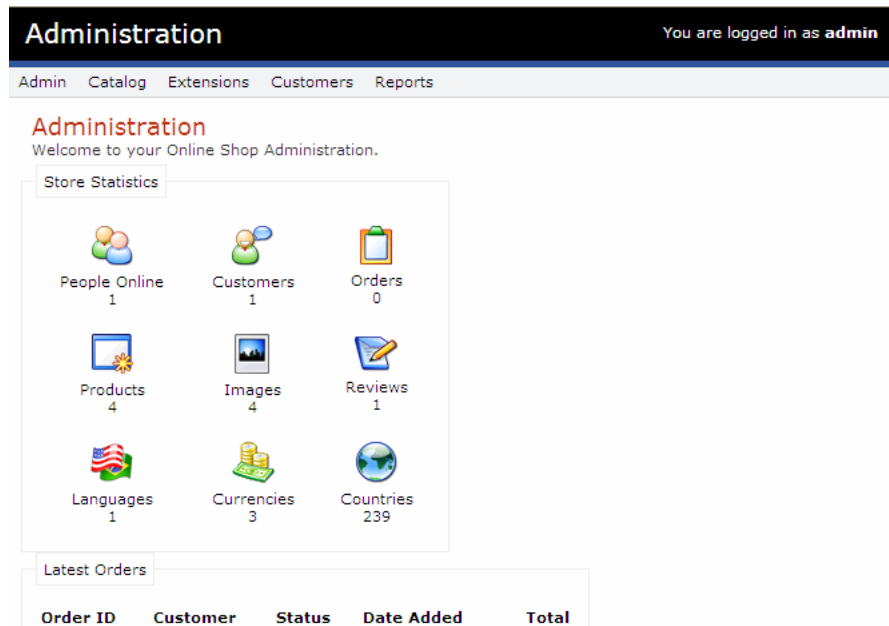*File 5:* OpenCart\admin\language\english\controller\payment_gogopay.php

To: \admin\language\english\controller\payment_gogopay.php
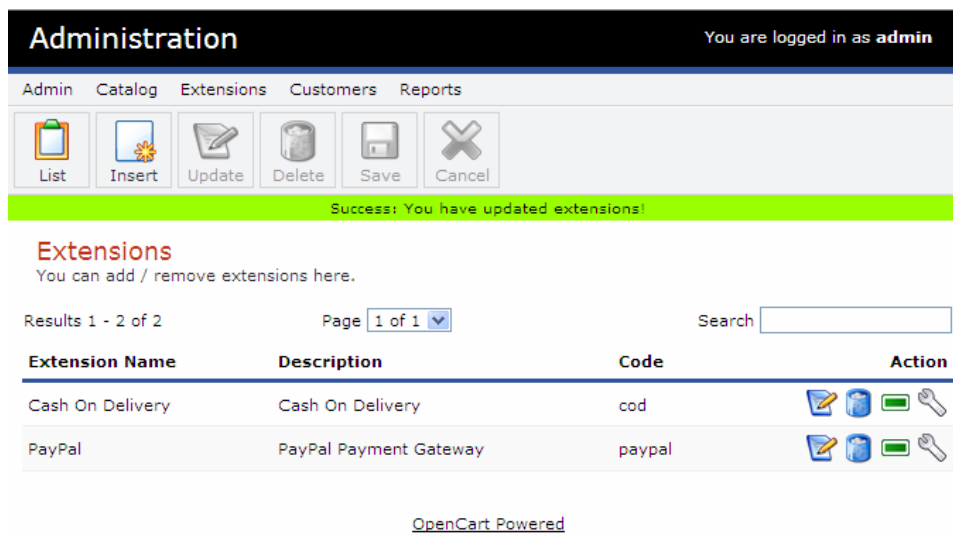
Note: Here catalog means your website name

Step 3 → After copying above files to respective directories, Open Web Admin module Control Panel of OpenCart Shop, login using username and password and click on Login

The following screen will be displayed

Next is to add Gogopay Payment and configure Merchant Account, to do that click on Extensions Menu and select Payment option, the following screen will be displayed

Next click on Insert button and fill necessary values, as per next screen

Extensions
You can add / remove extensions here.

General   Data

English

* Extension Name: Gogopay

* Description: Gogopay Payment Gateway

Next click on Data tab and enter following details

Extensions
You can add / remove extensions here.

General   Data

* Code: gogopay

* Directory: payment

* Filename: gogopay.php

* Controller: payment_gogopay

After entering Gogopay Payment extensions, click on Save Button to accept the changes. Now to edit the Gogopay Merchant Settings, click on Install button (on + sign)

Administration   You are logged in as **admin**

Admin   Catalog   Extensions   Customers   Reports

List   Insert   Update   Delete   Save   Cancel

Success: You have updated Gogopay account details!

Extensions
You can add / remove extensions here.

Results 1 - 3 of 3   Page 1 of 1   Search

Extension Name	Description	Code	Action
Cash On Delivery	Cash On Delivery	cod	
Gogopay	Gogopay Payment Gateway	gogopay	
PayPal	PayPal Payment Gateway	paypal	

The following screen will be displayed after clicking on ✚ button.

Next Click on button to enter Gogopay Merchant Account details. After entering necessary details, click on save button to accept the changes. That's it and you're done with Gogopay Payment implementation in Opencart.

To see Gogopay Payment API, buy and product on your Web Shop and click on checkout link.

Payment Information Screen Shot of Web Shop

4. PAYMENT WINDOW TYPE

The payment window can be integrated into your website using three different ways like:

- Embedded
- Popup
- New Page

Select the type of Payment Window in Control Panel.

Note: For testing the Gogopay Payment Gateway API with Dummy Gogopay eCards and Credit cards, the Merchant Should be in TEST mode

Dummy eCards for testing...........

0987654321654321   5868

0987654321765432   2212

0987654321876543   9841

0987654321987654   9811

Credit Cards for testing...........

Card Type	Card Number
Visa	4462000000000003
MasterCard	5404000000000001
Amex	374200000000004

JCB	3569990000000009
Solo	6334900000000005
Diners Club	36000000000008
Visa Electron	4917300000000008

5. CURRENCY CODES REFERENCE

ISO-4217	Code Currency	ISO-4217	Code Currency
AED	UAE Dirham	KWD	Kuwait, Dinars
ARS	Pesos	LKR	Sri Lanka Rupee
AUD	Australia Dollars	LYD	Libya, Dinars
BHD	Bahrain, Dinars	MTL	Maltese Lira
BND	Brunei Darussalam, Dollars	MUR	Mauritius Rupee
BRL	Brazil Real	MXN	Mexico, Pesos
BWP	Pula	MYR	Malaysia, Ringgits
CAD	Canada, Dollars	NOK	Norway, Krone
CHF	Switzerland, Francs	NPR	Nepalese Rupee
CLP	Chile, Pesos	NZD	New Zealand, Dollars
CNY	China, Yuan Renminbi	OMR	Oman, Rials
COP	Colombia, Pesos	PKR	Pakistan, Rupees
CYP	Cyprus Pound	PLN	Zlotych
CZK	Czech Republic, Koruny	QAR	Qatar, Rials
DKK	Denmark, Kroner	SAR	Saudi Arabia, Riyals
EUR	Euro	SEK	Sweden, Kronor
GBP	United Kingdom, Pounds	SGD	Singapore, Dollars
HUF	Forint	SIT	Tolar
IDR	Indonesia, Rupiahs	THB	Thailand, Baht
ILS	New Israeli Sheqel	TTD	Trinidad and Tobago, Dollars
INR	Indian Rupee	USD	US Dollar
IRR	Iranian Rial	VEB	Bolivares
ISK	Iceland Krona	ZAR	South Africa, Rand
JPY	Yen		
KRW	Won		

6. ERROR CODES

Number	Description
01	Insufficient Merchant WebShop parameters

Number	Description
02	Username NOT Supplied
03	Password NOT Supplied
04	CurrencyCode NOT Supplied
05	Amount NOT Supplied or less than Zero
06	Universal Datetime NOT Supplied
07	Universal Datetime Invalid Format
08	Universal Datetime Expired
09	Merchant IP Blacklisted
10	Customers IP Blacklisted
11	Merchant + Customers IP Blacklisted
12	Merchants URL Black Listed
13	Merchant IP And URL Black Listed
14	Customers IP And Merchant URL Black Listed
15	Merchant And Customer IP + Merchant URL Black Listed
16	Merchant API Username doesnt exist
17	Merchant is Blocked - Password and IP not verified
18	Merchant is StandBy so password and ip not verified
19	Merchant API Username exist but password is wrong
20	Merchant API Username, password exist but IP address is wrong
21	Merchant API Username, password and IP exits but there is APIBlock
22	Invalid CurrencyCode
23	Invalid FeeBearer Value
24	Invalid CaptureMode Value
25	Invalid Billing Details Supplied Value
26	Invalid Shipping Details Supplied Value
27	Invalid TransactionIDType Supplied Value
28	Order Line not supplied
29	Success URL not supplied
30	Cancel URL not supplied
31	Customer EmailID not supplied
32	Billing FirstName not supplied
33	Billing LastName not supplied
34	Billing Address1 not supplied
36	Billing City not supplied
37	Billing Country not supplied

Number	Description
38	Billing ZipCode not supplied
39	Shipping FirstName not supplied
40	Shipping LastName not supplied
41	Shipping Address1 not supplied
42	Shipping City not supplied
43	Shipping Country not supplied
44	Shipping ZipCode not supplied
45	Duplicate MerchantTransactionID send to Payment Gateway

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