Digital Treasury Corporation

DTCO Payment Gateway

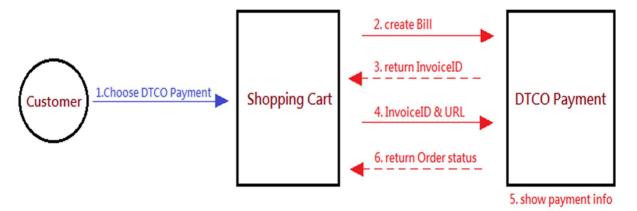
Version 1.1.0 2015.05.15

I. Version History

Version	Date	Content	Editor
v 1.0.0	2015.03.18	First version	IshaHuang
v 1.0.1	2015.04.08	Part V-B Status	IshaHuang
		Before : Finished, PayExpired	
		After : Finished+PayExpired	
v 1.0.2	2015.04.10	Part III table2	IshaHuang
		Currency of Taiwan	
		Before: NTD	
		After : TWD	
v 1.0.3	2015.04.13	Part IV	IshaHuang
		Emphasize the web URL	
v 1.1.0	2015.05.15	Part III · Part IV URL	IshaHuang
		Before :	
		https://merchant.dtco.co/	
		After:	
		https://payment.dtco.co/	

II. Operating Procedure

Figure 1 - STEP



- Choose DTCO Payment by customer Customers check out with DTCO-Payment.
- Create Bill by shopping cart
 Shopping cart create a bill which is following rules in part III.
- 3. Return Invoice ID by DTCO-Payment

It will return an invoice id to shopping cart.

- More about invoice id is defined in part IV.
- 4. Send Invoice ID & Web URL by shopping cart

Shopping cart send the invoice id to DTCO-Payment to get the real payment info.

- More about invoice id and web URL is defined in *part IV*.
- 5. Show Payment Info by DTCO-Payment

According to the invoice id, the payment info will show on the page.

- > The payment will countdown 15 minutes and show just once.
- 6. Return Order Status by DTCO-Payment

After pay, DTCO-Payment will send status of corresponding order to shopping cart.

The status rules is defined in part V.

III. The Bill

Those parameters of bill are defined in Table 1. We suggest that coding with HttpRequest to get invoice id.

- ➤ URL: https://payment.dtco.co/payment encode
- > There is only **POST** can be used.

Parameter	Туре	Description	Example
api_key	VARCHAR	Apply from DTCO	WI3T7okeypVr1EhCTog4FBXWC28ZtHx1
fiat_money	VARCHAR	Price of bill	100
fiat_currency	VARCHAR	Look at Table 2	TWD
order_id	VARCHAR	non-repetitive	1
return_url	VARCHAR	Look at <i>part V-A</i>	http://blog.dtco.co/?wc-api=WC_DTCO

Table 1 - POST Parameters for Invoice Id

Currency		Currency		Currency	
TWD	Taiwan	PHP	Philippine	VND	Vietnam
CNY	China	SGD	Singapore	MMK	Myanmar
USD	America	MYR	Malaysian	BND	Brunei
IDR	Indonesia	THB	Thailand	KHR	Cambodia
EUR	Europe	KRW	Korea	LAK	Laos
JPY	Japan	HKD	Hong Kong	BTC	

Table 2 - Supports Currency

IV.Invoice ID & Web URL

Send the invoice id to get the real payment info. Those parameters are defined in Table 3.

- URL: https://payment.dtco.co/payment
- ▶ Both POST and GET can be used here, but we prefer "POST".

Parameter	Туре	Description	Example
invoiceID	VARCHAR	Return from DTCO	a2015031718165555
weburl	VARCHAR	After pay success can	www.dtco.co
		return to your website.	
		Prefer to use "urlencode"	
		(php).	

Table 3 - POST/GET Parameters for Real Payment Info

V. Return Status

Shopping cart system should develope a function to handle the return status and make it call by URL.

So that DTCO-payment can return order status by "return url".

A. Return parameters

Those parameters which are returned from DTCO-Payment are defined in Table 4.

The handle function should parse parameters.

Both POST and GET can be used here.

It judged by "return_url" already has parameters or not.

return_url	Server Type
http://blog.dtco.co/?wc-api=WC_DTCO	GET
http://blog.dtco.co/	POST

Shopping cart should check the validity of bill doubly.
If there had any confusion, the status should not be changed.

Parameter	Туре	Description	Example
KeyNo	VARCHAR	order id of bill	1
Status	VARCHAR	Look at Part V-B.	Finished
FiatCurrency	VARCHAR	currency of bill, for check bill	TWD
FiatMoney	VARCHAR	the price of bill, for check bill	100

Table 4 - Status from DTCO Return

B. Status

Due to the Bitcoin attribute, the payment status may finished but not enough, overpay or even pay expired.

So, when the shopping cart handle the return status.

Only to determine the keyword "Finished".

> Example:

Status Value	Is Finished?
Finished	✓
Finished+PayExpired	✓
NotEnough	×

VI. How to Test

Before testing DTCO-Payment, be sure to have following items.

- A. bitcoin wallet
- B. BTC
- C. API key To applying from DTCO.
- Please make sure that the function in parameter "return_url" is completed.

VII. Example Code by PHP

A. POST bill info and get the invoice id

```
function post bill for InvoicdID(){
    $toURL = 'https://payment.dtco.co/payment_encode';
    $ch = curl_init();
    $params = array(
                'api_key' => 'Wl3T7okeypVr1EhCTog4FBXWC28ZtHx1', //to apply from DTCO
'fiat_money' => '100'.
                'fiat_currency' => 'TWD',
                              => '1',
=> 'http://blog.dtco.co/?wc-api=WC_DTCO',
                'order id'
                'return_url'
                //this return_url is for woo-commerce, DTCO-Payment will use GET to return
            );
    $options = array(
        CURLOPT_URL
                                => $toURL,
        CURLOPT_HEADER
                               => false,
        CURLOPT_RETURNTRANSFER => true,
        CURLOPT_POST
                                => true,
                               => http_build_query($post),
        CURLOPT_POSTFIELDS
    );
    curl_setopt_array($ch, $options);
    $invoicd_id = curl_exec($ch);
    curl_close($ch);
    return $invoicd_id;
}
```

B. POST/GET invoice id to get real payment info(using GET here)

```
function process_order(){
    $invoiceID = post_bill_for_InvoicdID();

    $webURL = 'http://blog.dtco.co/';
    //webURL should be different by different merchant website

    return array(
        'result' => 'success',
        'redirect' => "https://payment.dtco.co/payment?invoiceID=$invoiceID&weburl=$webURL"
    );
}
```