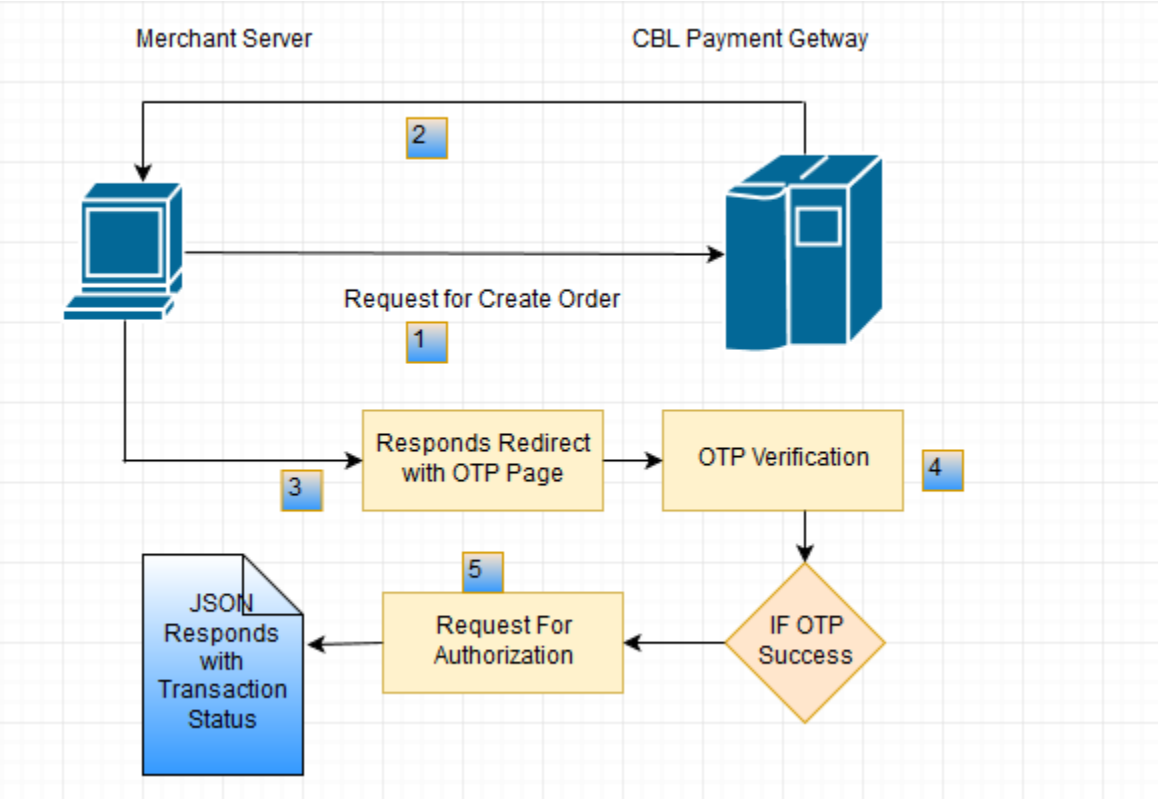
E-Commerce API Documentation

Overview

CBL E-Commerce Payment Gateway is a software platform that allows merchants to conduct their businesses securely through their webpages. It also enables customers to purchase products and services from merchants' websites with any American Express, Visa & MasterCard debit and credit card. It facilitates numerous ecommerce businesses to conduct online transactions with their clients in a reliable and cost effective manner in real time using encryption and authentication capabilities with 3D secure environment. CBL IT also developed a **REST** API for E-Commerce transactions.

Procedure Flow



API URL

TEST Environment: https://sandbox.thecitybank.com:7788

Production Environment: https://ecomm-webservice.thecitybank.com:7788

Process Steps

1. Client server authentication

We have implemented client server authentication for access CBL E-Commerce API. At the Merchant end the first step is to create a certificate signing request (CSR). To do that, you need a key. To generate a key, run the following command. Use your domain name as a replacement of “yourdomain”.

openssl genrsa -out yourdomain.key 2048

Now a CSR can be generated by following command:

openssl req -new -key yourdomain.key -out yourdomain.csr

Make sure the Common Name (CN) will be the MerchantID (CBL will provide the Merchant ID). For Test common name should be **1112233**

Then submit the yourdomain.csr (CSR file) to the CBL Certification Authority (to sysadmin@thecitybank.com) for signing. After signing CBL will provide you the yourdomain.crt and rootCA.pem to configure by follow following example code as client for sending Create Order request to the CBLPG using SSL Protocol

2. Call Token API

TEST: https://sandbox.thecitybank.com:7788/transaction/token

Token ID:

Before initiate transaction you need to request for Token Id which is use in create order as transaction ID. Every Token expires within five minutes.

Token ID request format:

Input Variable	Data Type	Description	Is Mandatory
password	String	Password for API access user	YES
userName	String	User ID for access API	YES

```
$postDatatoken = '{
"password": "*****",
"userName": "**"
}';
```

API responds:

1. Response Code (Response code 100 means success)
2. Transaction ID

```
{
"responseCode": 100,
"responseMessage": "Operation  Successful",
"transactionId": "ac4744fb-d623-4fc8-be1d-a0995a80316b"
}
```

3. Create Order API

Transaction initiate in CBL PG by create order request. Customer will enter card details on merchant's web page. Merchant will place payment processing request along with card detail to CBL PG. CBL PG will generates unique order ID and check 3DS enrollment and returns OTP page back to merchant if card is 3D enrolled.

TEST: https://sandbox.thecitybank.com:7788 /transaction/createorder

Create order request invoke with following input variable.

Input Variable	Data Type	Description	Is Mandatory
merchantId	String	Merchant unique ID	YES
amount	String	the amount which will process by CBL PG	YES
currency	double	The currency type must be mentioned. It shall be three characters (Ex for BDT currency code 050)	YES
description	String	Transaction details description	YES
approveUrl	String	Customer's Card number	YES
cancelUrl	String		NO
declineUrl	String	Customer's Name	YES
userName	String	Service access user name	YES
passWord	String	Password for user name	YES
transactionId	String	Merchant Transaction ID	YES
secureToken	String	Token ID use for API user Authentication	YES

API responds:

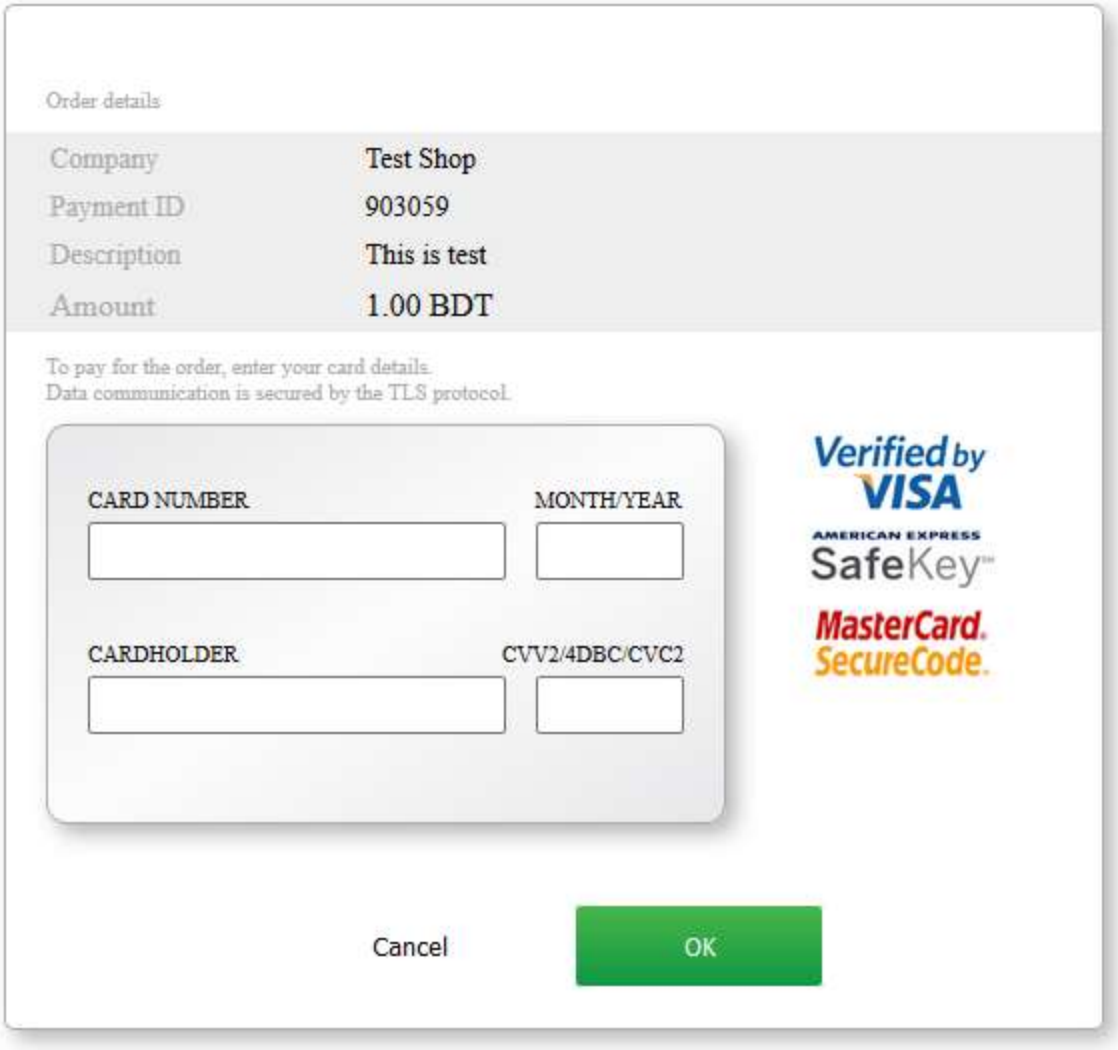
3. MD (Order ID and Session ID)
4. Pair Authentication Request ID
5. Term URL (Transaction authorization URL)
6. acsUrl (OTP page URL depends on which type of card use for transaction)

You need to redirect with responds by these values for ACS page. Sample PHP scripts given below.

SAMPLE CODE (PHP)

```
<?php

function ProcessRequest($curl_post_data,$service_url,$proxy,$proxyauth)
{
$output = '';
$certfile      = '/11122333.crt';
$keyfile       = '/11122333.key';
$cert_password = '';
$ch = curl_init();
curl_setopt( $ch, CURLOPT_URL, $service_url );
curl_setopt( $ch, CURLOPT_RETURNTRANSFER, 1 );
curl_setopt( $ch, CURLOPT_SSL_VERIFYPEER, false);
curl_setopt( $ch, CURLOPT_SSLCERT, getcwd() . $certfile );
curl_setopt( $ch, CURLOPT_SSLKEY, getcwd() . $keyfile );
curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, FALSE);
curl_setopt($ch, CURLOPT_POSTFIELDS, $curl_post_data);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: application/json'));
$output = curl_exec($ch);
$cblcz = json_decode($output, true );
return $cblcz;
}

$proxy ="";
$proxyauth ="";
$postDatatoken = '{
"password": "***",
"userName": "***"
}';
$serviceUrltoken ="";
$serviceUrltoken= 'https://sandbox.thecitybank.com:7788/transaction/token';
$cblcz = ProcessRequest($postDatatoken,$serviceUrltoken,$proxy,$proxyauth);

 $transactionId = $cblcz['transactionId'];

$serviceUrlEcomm = 'https://sandbox.thecitybank.com:7788/transaction/createorder';

$curl = curl_init();

$postdataEcomm = '{
"merchantId": "11122333",
"amount": "100",
"currency": "050",
"description": "This is test",
"approveUrl": "http://localhost/CityBankPHP_1.0.1/approve.php",
```

```
"cancelUrl": "http://localhost/CityBankPHP_1.0.1/cencel.php",
"declineUrl": "http://localhost/CityBankPHP_1.0.1/decline.php",
"userName": "test",
"passWord": "123456Aa",
"secureToken": "'.$transactionId.'"
}';


$cblEcomm = ProcessRequest($postdataEcomm,$serviceUrlEcomm,$proxy,$proxyauth);

$URL = $cblEcomm['items']['url'];
$orderId = $cblEcomm['items']['orderId'];
$sessionId = $cblEcomm['items']['sessionId'];
$redirectUrl = $URL."?ORDERID=".$orderId."&SESSIONID=".$sessionId;

?>

<form id="PostForm" name="PostForm" action="<?php echo $redirectUrl;?>" method="POST">

</form>
<script language='javascript'>var vPostForm = document.PostForm;vPostForm.submit();</script>
```



If create order operation is successful, following response will return with JSON format.

[responseCode] => 100 [message] => [items] => Array ([orderId] => 903060 [sessionId] => C88EBAB4CA634DE4BB4321AE2250ADCE [status] => [url] => https://sandbox.thecitybank.com:4443/index.jsp)

If create order operation not successful merchant will get, following response will return with JSON format.

Array ([responseCode] => 111 [message] => Enrollment 3DS Check Failed [items] =>)

If user name and password not correct, following response will return with JSON format

Array ([responseCode] => 107 [message] => Authentication Failed!!! [items] =>)