SelcomPay/Masterpass eCommerce API Specification

Version 1.3
Last updated 30 November 2018

Change log

2018-11-30   Added qr string in the paymentCreate api response

2018-11-18   Updated base URL from https://paypoint.selcommobile.com/v1/ to
              https://api.selcommobile.com/v1/

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Base URL

https://api.selcommobile.com/v1/

Authentication

Authenticate your request by including your API key and hashed digest of your API key, API secret and timestamp in your request HTTP headers. You will receive your API key and API secret directly from Selcom. Your API key and API secret carry many privileges, so be sure to keep them secure and do not share them in publicly accessible areas such as GitHub, client-side code, and so forth.

All API requests must be made over HTTPS. Calls made over plain HTTP will fail. API requests without authentication will also fail.

HTTP headers required

Content-type	application/json	Required
api_key	API key provided by Selcom	Required
digest	Digest calculated by the digest function shown below	Required
request_timestamp	Timestamp in Y-m-d H:i:s format	Required

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Digest function

```
function getDigest($timestamp, $api_key, $api_secret) {
        return md5($timestamp . $api_secret) . sha1(sha1($timestamp . $api_key . $api_secret, true));
}
```

Post function

```
function postRequest($url, $request, $api_key, $api_digest, $timestamp) {
        $ch = curl_init();
        curl_setopt($ch, CURLOPT_URL, $url);
        curl_setopt($ch, CURLOPT_HTTPAUTH, CURLAUTH_ANY);
        curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, false);
        curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 0);
        curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
        curl_setopt($ch, CURLOPT_SSLVERSION,1);
        curl_setopt($ch, CURLOPT_POSTFIELDS, $request);
        curl_setopt($ch, CURLOPT_HTTPHEADER, array(
                "Content-type: application/json",
                "api_key: $api_key",
                "digest: $api_digest",
                "request_timestamp: $timestamp"
        ));
        $response = curl_exec($ch);
        curl_close($ch);

        return $response;
}
```

Sample API call

```
$url = "https://paypoint.selcommobile.com/v1/paymentCreate";

$request = array(
        "order_id" => "2018092502",
        "amount" => "500",
        "currency" => "TZS",
        "payer_remarks" => "None",
        "merchant_remarks" => "None",
        "payer_email" => "test@email.net",
        "payer_phone" => "255784123456"
);

$api_key = "testmerchant";
$api_secret = "ffd4fac7-4a7a-422a-8d5a-70912d57442a";
$timestamp = gmdate("Y-m-d H:i:s");
$api_digest = getDigest($timestamp, $api_key, $api_secret);

$request_string = json_encode($request);
$response_string = postRequest($url, $request_string, $api_key, $api_digest, $timestamp);
```

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Methods

1. paymentCreate

Request a payments token from the gateway to be redeemed using Selcompay/Masterpass payment option through mobile money, mobile banking and Selcom Card.

Request attributes

order_id	Unique identifier from the merchant system	Required String (1-100)
amount	Amount of the transaction to be collected	Required Integer
currency	Three letter ISO currency code (TZS)	Required String (3)
payer_remarks	Any remarks or instructions from the customer	Optional String (0-100)
merchant_remarks	Any remarks or instructions from the merchant	Optional String (0-100)
payer_email	Customer's email address	Optional String (0-50)
payer_phone	Customers' phone number	Optional String (0|12)

Response attributes

Result	Result of the request submitted	SUCCESS | FAIL
message	Description of the result	
order_id	Unique identifier echoed back	
payment_token	Payment token to be used by the customer to make the payment	
payment_status	Status of the payment	PENDING | CANCELLED | COMPLETED
qr	QR String to be used for Scan and Pay	

Sample API call

https://paypoint.selcommobile.com/v1/paymentCreate

Request JSON

{"order_id":"2018092301","amount":"1000","currency":"TZS","payer_remarks":"Any remarks from the payer during payment","merchant_remarks":"Order for payment of 3x12in cheeze pizzas","payer_email":"payee@mail.com","payer_phone":"255784670921"}

Response JSON

{"result":"SUCCESS","message":"Payment notification logged","order_id":"2018092301","amount":"1000","currency":"TZS","payment_token":"80001746","payment_status":"PENDING","qr":"00020101021104155254542999000205204581253038345802TZ5920SELCOM PAY DEMO TILL6003DSM610600000006224010880001746030860014628 63040662"}

2. paymentStatus/{order_id}
Query the status of a payment token

Request attributes

order_id	Unique identifier from the merchant system	Required String (1-100)

Response attributes

result	Result of the request submitted	SUCCESS | FAIL
message	Description of the result	
order_id	Unique identifier echoed back	
payment_status	Status of the payment	PENDING | CANCELLED | COMPLETED

Sample 1
API call
https://paypoint.selcommobile.com/v1/paymentStatus/123456

Request JSON
NA

Response JSON
{"result":"FAIL","message":"123456 not found"}

Sample 2
API call
https://paypoint.selcommobile.com/v1/paymentStatus/2018092301

Request JSON
NA

Response JSON
{"result":"SUCCESS","order_id":"2018092301","payment_status":"PENDING"}

Sample 3
API call
https://paypoint.selcommobile.com/v1/paymentStatus/2018092501

Request JSON
NA

Response JSON
{"result":"SUCCESS","order_id":"2018092501","transid":"20180924232308","reference":"6695843844","channel":"SELCOMCARD","amount":"500","phone":"255786455554","payment_status":"COMPLETED"}

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3. paymentCancel/{order_id}

Cancel a payment token

Request attributes

order_id	Unique identifier from the merchant system	Required String (1-100)

Response attributes

result	Result of the request submitted	SUCCESS | FAIL
message	Description of the result	
order_id	Unique identifier echoed back	
payment_status	Status of the payment	PENDING | CANCELLED | COMPLETED

Sample 1

API call

https://paypoint.selcommobile.com/v1/paymentCancel/123456

Request JSON

NA

Response JSON

{"result":"FAIL","message":"123456 not found"}

Sample 2

API call

https://paypoint.selcommobile.com/v1/paymentCancel/2018092301

Request JSON

NA

Response JSON

{"result":"SUCCESS","order_id":"2018092301","payment_status":"CANCELLED"}

Sample 3

API call

https://paypoint.selcommobile.com/v1/paymentCancel/2018092501

Request JSON

NA

Response JSON

{"result":"FAIL","message":"2018092501 has already been completed","order_id":"2018092501","payment_status":"COMPLETED"}

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Callbacks/webhooks

On successful payment or redemption of a payment token Selcom can post back a JSON notification to a callback URL provided by the merchant. The JSON content posted back is shown below.

Callback attributes

result	Result of the payment	SUCCESS
order_id	Unique identifier echoed back	
transid	Unique transaction identifier from the payment channel used to make the payment	
reference	Unique transaction identifier from the Selcom gateway	
channel	Channel used to pay	
amount	Payment amount	
phone	Phone number of the customer	
payment_status	Status of the payment	COMPLETED

Sample
Request callback JSON

{"result":"SUCCESS","order_id":"2018092501","transid":"20180924232308","reference":"6695843844","channel": "SELCOMCARD","amount":"500","phone":"255786455554","payment_status":"COMPLETED"}

Response JSON expected from merchant

{"response":"OK"}

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