**Developer**

# Orange Money WebPay Dev 1.0

Payments

## Enable your customer to pay for your products through Orange Money. Development API

Use this API(/myapps/new/addapi/om-webpay-dev)
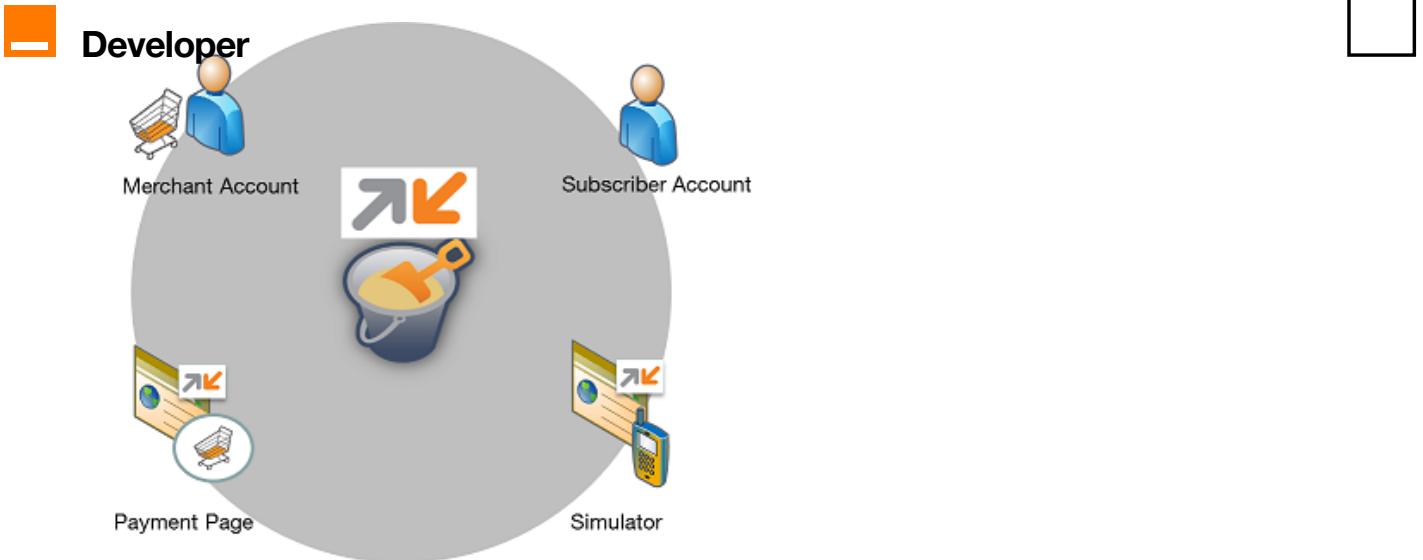
Contact us(/apis/om-webpay-dev/contact-us)

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**getting-started** ▼

The Orange Money Web Payment API DEV (Sandbox) allows web merchants to integrate Orange Money as a means of payment on their websites. Orange Money is a mobile payment solution across 17 countries in Africa and the Middle East.

- The Web Payment Sandbox is an E2E platform created for partners' integration and testing.
- Orange Money tests accounts (Merchant and Subscribers) are available to perform payment transactions.
- Integration Tools: USSD simulator and OM Payment Add-on (page)

## Steps of test:

1. subscription via Orange Partner portal
2. access_token generation
3. Web Payment API
4. Transactions Status API
5. Information: For security reasons, all network flows use the HTTPS protocol

**Watch the video below and see how you can use our API to offer Orange Money payment solution on your e-commerce website.**

video (https://www.dailymotion.com/embed/video/x4o3q40)

## 1- Web Payment Offer subscription - Getting My Merchant Key

You have been invited to subscribe the Orange Money Web Payment API. You are about to use your merchant wallet in a secure way to offer a new payment method to your customers.

## 1.1 Application creation

https://developer.orange.com/myapps (https://developer.orange.com/myapps)

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## 1.2 'Orange Money WebPayDev' API addition

You should have received an email with Channel User and subscriber identifiers:

Channel User:

- id/login/name: MerchantWP00100
- Merchant Account Number: 7701900100
- Merchant Code: 101021
- PIN code: xxxx
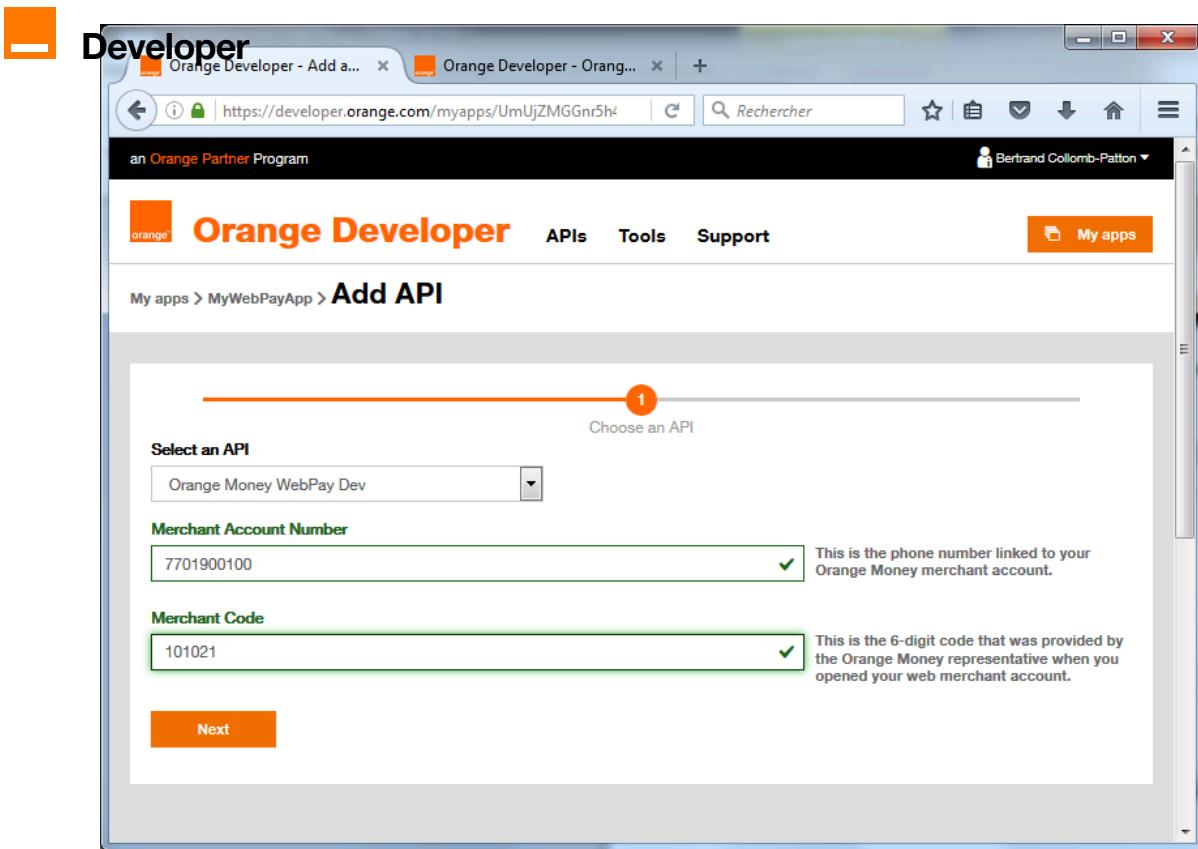
Subscriber:

- MSISDN: 7701100100
- PIN: xxxx

If it is not the case, please ask by email to:

- georgiana.cruceru@orange.com (mailto:georgiana.cruceru@orange.com)

So, add the API Orange Money Web Pay Dev to your Application and let's generate your Merchant Key by entering your `Merchant Account Number (channel user MSISDN)` and `Merchant Code`

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Warning: Orange Money WebPay offers are hidden. You must have been invited to see them. The `Merchant Key` will be created in the system only if you provide a valid Orange Money account and if you have proper rights to subscribe to the service. If you do not know your `Merchant Code`, please contact your local Orange Money support team.

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IMPORTANT: The `Merchant key` will be used as the Orange Money account identifier for all payment transactions (no MSISDN, nor PIN will not be required in the API). Please write down your `Merchant Key` and store it in a safe place.

Note that a single application can be subscribed to a DEV offer and a single country. For a second country, you need to create a new application.

## 2. Get your Access token

Orange Money Web Payment API requires an `Access token`, based on your developer credentials (client id and client secret).

You can obtain your token with a simple call:

```
curl -X POST \
-H "Authorization: Basic {consumer_key}" \
-H "Content-Type: application/x-www-form-urlencoded" \
-H "Accept: application/json" \
-d "grant_type=client_credentials" \
https://api.orange.com/oauth/v3/token
```

```
HTTP/1.1 200 OK
Content-Type: application/json
{
"token_type": "Bearer",
"access_token": "WI9VmGXfNB38s1e6A26Hob19AP2c",
"expires_in": "3600"
}
```

Consumer_key is in the Authorization header, by clicking on the "Show" button:



So, in the example:

```
curl -X POST \
-H "Authorization: Basic NktSSHljksdj7P...Jjndb6UdnlrT2lOaA==" \
-H "Content-Type: application/x-www-form-urlencoded" \
-H "Accept: application/json" \
-d "grant_type=client_credentials" \
https://api.orange.com/oauth/v3/token
```

```
HTTP/1.1 200 OK
Content-Type: application/json
{
"token_type": "Bearer",
"access_token": "IW3gdUVOvQVcO7mGNsOZgwdhDNvE",
"expires_in": "3600"
}
```

**Warning**: Check you are using the right URL: /orange-money-webpay/**dev**/v1/webpayment HTTP/1.1

**NOTE**: The access_token is valid for the duration, in seconds, specified by expires_in. Therefore, you do not need to request a new access token as your client application doesn't receive an error indicating that your access token expired. At the present time, access_token has a lifetime of about **60 minutes**.

If your token is expired, you just have to get a new token by the same method.

You can get more details about the token here (https://developer.orange.com/tech_guide/2-legged-oauth-2-v3/).

## 3. Web Payment API

This API allows you to create a payment session in the Orange Money system. A payment transaction will be created based on the information provided in your request and a `Payment Token` will be returned in the API response.

## 3.1 Web Payment request

## 3.1.1 Web Payment transaction initialization

You have to send a post:

```
https://api.orange.com/orange-money-webpay/dev/v1/webpayment

Authorization: Bearer IW3gdUVOvQVcO7mGNsOZgwdhDNvE
Accept: application/json
Content-Type: application/json
{
  "merchant_key": "a86b2087",
  "currency": "OUV",
  "order_id": "MY_ORDER_ID_08082105_0023457",
  "amount": 1200,
  "return_url": "http://myvirtualshop.webnode.es",
  "cancel_url": "http://myvirtualshop.webnode.es/txncncld/",
  "notif_url": "http://www.merchant-example2.org/notif",
  "lang": "fr"
  "reference": "ref Merchant"
}
```

```
Content-Type: application/json

{
    "status":201,
    "message":"OK",

"pay_token":"f5720dd906203c62033ffe64ed75614785878b0ab2231d9c582b2908fca0ab9a",
    "payment_url":"https:\/\/webpayment-qualif.orange-
money.com\/payment\/pay_token\/f5720dd906203c62033ffe64ed75614785878b0ab2231d9c58
2b2908fca0ab9a",
    "notif_token":"dd497bda3b250e536186fc0663f32f40"
}
```

**Warning: On API DEV we use OUV as currency. On API country is the country's currency.**

**Note that the field ''order_id'' must be unique for the system.**

**The fields order_id and reference are limited to 30 chars and return_url, cancel_url and notify_url to 120 chars**

**The field reference refers to the merchant name**

You can find below an example of the code for a postman request:

```
POST /orange-money-webpay/dev/v1/webpayment HTTP/1.1
Host: api.orange.com
Content-Type: application/json
Authorization: Bearer R5EVAffaxgpTojhuTorBSU1qMHgy
Accept: application/json
Cache-Control: no-cache
Postman-Token: e18f3aac-9bd7-ddc5-a3a4-668e6089a0d5

{
  "merchant_key": "ad8b9717",
  "currency": "OUV",
  "order_id": "TestOPE_001903",
  "amount": 1500,
  "return_url": "http://www.merchant-example.org/return",
  "cancel_url": "http://www.merchant-example.org/cancel",
  "notif_url": "http://www.merchant-example.org/notif",
  "lang": "fr",
  "reference": "ref Merchant"
}
```

OK! Now, all that you need is to redirect your client to our secured payment page:
https://webpayment-ow-sb.orange-money.com/payment/pay_token/a4b2a348ee580b0d21fd3b2b9d67e1aeca739a28ca6d60d99f1bc833b8ffb909 (https://webpayment-ow-sb.orange-money.com/payment/pay_token/a4b2a348ee580b0d21fd3b2b9d67e1aeca739a28ca6d60d99f1bc833b8ffb909)

In order to ask for an OTP code and confirm your transaction, you can use the Sandbox Simulator.

Once the transaction is confirmed by the Orange client, the system will redirect the user to your `return_url`. Then, an HTTP notification will be posted to the `notif_url` you sent in the web payment request.

## 3.1.2 Web Payment request URLs

There are 3 URLs in the webpayment request:

- return_url: the URL of the website where the customer will return when the payment will be finished and the customer decides to click on the return link of the web payment website

```
cancel_url: the URL of the website where the customer will return when the
payment will be cancelled by the customer by clicking on the cancel link of
the web payment website
```

```
notif_url: the notification URL used by the webpayment backend to notify the
merchant backend of the status of the payment's transaction (see more details
at "Transaction Notification"). This notification is only sent when the
payment process is confirmed and when it ends with a 'SUCCESS' or 'FAILED'
status
```

These URLs are sent in the body of the Webpayment request, so the merchant can use dynamic URLs that depend on the merchant website context (e.g. with URL parameters like "&returnOnCart=1", "&referrer=site1.com").

One WebPayment account can be used to centralize the merchant money of multiple websites by putting the same credentials/merchant_key in the requests sent to the WebPayment backend. Because the Webpayment request URLs parameters are dynamically set during the build of the body of the request, each website can use its own URLs.

■ Example:
**Developer**
mywebsite1.com

- POST https://api.orange.com/orange-money-webpay/dev/v1/webpayment (https://api.orange.com/orange-money-webpay/dev/v1/webpayment) –
- Bearer IW3gdUVOvQVcO7mGNsOZgwdhDNvE
- "merchant_key": "a86b2087"
- "return_url": "mywebsite1.com/webpayment_returnurl_1"
- "cancel_url" : "mywebsite1.com/webpayment_cancelurl_1"
- "notif_url" : "mywebsite1.com/webpayment_notifurl_1"

mywebsite2.com

- POST https://api.orange.com/orange-money-webpay/dev/v1/webpayment (https://api.orange.com/orange-money-webpay/dev/v1/webpayment) –
- Bearer IW3gdUVOvQVcO7mGNsOZgwdhDNvE
- "merchant_key": "a86b2087"
- "return_url": "mywebsite1.com/webpayment_returnurl_2"
- "cancel_url" : "mywebsite1.com/webpayment_cancelurl_2"
- "notif_url" : "mywebsite1.com/webpayment_notifurl_2"

## 3.2 OTP code getting (via Partner USSD Sandbox Simulator)

The Partner Sandbox simulator is a Web-based interface allowing partners and developers to perform the following transactions in the Sandbox environment:

- OTP request
- Merchant Balance request
- Subscriber Balance request

You can access the Simulator: https://mpayment.orange-money.com/mpayment-otp/login (https://mpayment.orange-money.com/mpayment-otp/login)



You can log in with the merchant account provided for the Sandbox (login: Merchant Account Number, password: channel user Id).
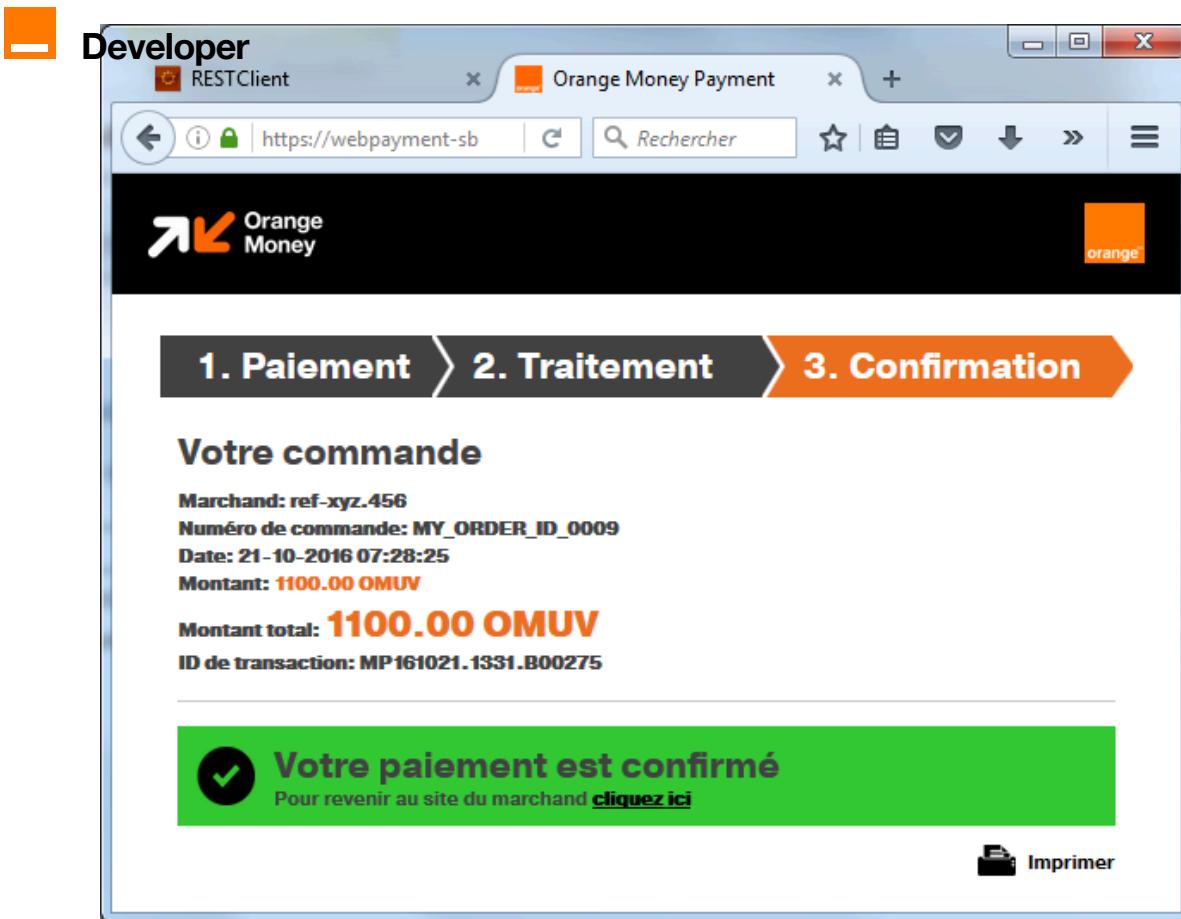
Then you can request an OTP with the subscriber PIN code.

You just have to fill in the OTP code on the payment page, and click on "Confirmer":



Once MSISDN and OTP are filled in on the payment page, click on "Confirmer":

… and the HTTP notification is posted to the notif_url you sent in the web payment request.

**Warning: make sure you have implemented the notif_url to have visibility on payment status, if not you will not be able to validate in real-time the order and change its status on your database**

## 3.3 Transaction Notification

The client has confirmed the transaction! Orange Money has just sent the Payment Notification to your `notif_url`

```
POST http://www.merchant-example2.org/notif
{
    "status":"SUCCESS",
    "notif_token":"dd497bda3b250e536186fc0663f32f40",
    "txnid": "MP150709.1341.A00073"
}
```

Warning: Do you remember the `notif_token` present in the web payment response? **Make sure this token matches the token sent in the notification POST**. This way, you will validate the authenticity of the notification.

## 4. Transactions Status API
**Developer**

In addition to Transaction Notification, you can use the Transaction Status API that allows you to consult in real-time the current status of a payment. In practice, this can be useful for cases where notifications are not sent (e.g. when users don't validate their payments)

```
https://api.orange.com/orange-money-webpay/dev/v1/transactionstatus
Accept: application/json
Authorization: Bearer WI9VmGXfNB38s1e6A26Hob19AP2c
Content-Type: application/json
{
    "order_id": "MY_ORDER_ID_08082105_0023457",
    "amount": 1200,
    "pay_token":
"f5720dd906203c62033ffe64ed75614785878b0ab2231d9c582b2908fca0ab9a"
}
```

```
201 Created
Content-Type:  application/json; charset=utf-8

{
    "status": "SUCCESS",
    "order_id": "MY_ORDER_ID_08082105_0023457",
    "txnid": "MP150709.1341.A00073"
}
```

> The status could take one of the following values: INITIATED; PENDING; EXPIRED; SUCCESS; FAILED

- INITIATED waiting for user entry
- PENDING user has clicked on "Confirmer", the transaction is in progress on Orange side
- EXPIRED user has clicked on "Confirmer" too late (after token's validity)
- SUCCESS payment is done
- FAILED payment has failed

If the transaction is not tried (the customer doesn't do anything or returns to the Merchant site), the status stays in the INITIATED state. By default, the token's validity is 10 minutes. The passage from a PENDING state to SUCCESS or FAILED state is rapid.

## 5. API reference

You can find the API description with more details and error codes on the API reference.

## 6. Troubleshooting
**Developer**

| Error message | Description | Solution | Contact |
|---|---|---|---|
| Simulator – Authentication error | The developer is not able to log in to the simulator | Verify the test **Channel User** credentials are right. Login : MSISDN Merchant (ex: **7701900008**) Pwd : id/login merchant (ex: **MerchantWP00008**) | sspo.incident@orange.com (mailto:sspo.incident@orange.com) |
| Web Payment - Notification is not received | The partner has not received the notification | Verify Notification URL of the partner | sspo.incident@orange.com (mailto:sspo.incident@orange.com) |
| Subscription to an application - Wrong parameter | Something went wrong in the exchange between OPE and Orange Money back end. | test this by creating a '''new''' application | https://developer.orange.com/support/contact-us (https://developer.orange.com/support/contact-us) |
| Subscription to an application – Not seeing an offer | The developer cannot add the Web Pay API | Orange Money WebPay offers are hidden. developers must be invited to see them | Country Admin or Georgiana Cruceru (georgiana.cruceru@orange.com (mailto:georgiana.cruceru@orange.com)) |
| Subscription to an application - An error has occurred, please try again later | | When the error appears at the first subscription please verify "Merchant Account Number". When the error appears at subscription after the developer deleted the subscription. The developer must create a new application and subscribe it again to the right Orange Money WebPay offer. A single application can be subscribed to a DEV offer and a single country. For a second country, the developer needs to create a new application. | sspo.incident@orange.com (mailto:sspo.incident@orange.com) |

| Error message | Description | Solution | Contact |
|---|---|---|---|
| Using API – Unauthorized to access the API | Wrong country | check the URL the developer is requesting against the one(s) the application is subscribed for. It might be wrong otherwise check with a legit token /orange-money-webpay/dev/v1/webpayment HTTP/1.1 | sspo.incident@orange.com (mailto:sspo.incident@orange.com) |
| Using API – Order already exists | | The field ''order_id'' must be unique for the system. This one has already been used somewhere else "order_id": "TestOPE_001503" | sspo.incident@orange.com (mailto:sspo.incident@orange.com) |
| Using API – Unauthorized currency | a single currency is allowed per API offer | the correct one can be found in the related documentation WebPay DEV: OUV WebPay country: as per OMC Core platform | sspo.incident@orange.com (mailto:sspo.incident@orange.com) |
| Using the API: Transaction status resource | Returned Status: NOT FOUND | The issue lies with the value of the parameters (amount, order_id and application_id); all 3 must be correct simultaneously. The developer may want to double-check them. against their logs. | sspo.incident@orange.com (mailto:sspo.incident@orange.com) |
| Using the API: Payment failed | | verify that you are well filled the OTP code in order to validate the payment transaction, with the correct MSISDN (client number) | sspo.incident@orange.com (mailto:sspo.incident@orange.com) |

## 7. List of common error codes

| http code | API code | Message | Description | Comments |
|---|---|---|---|---|
| 403 | 50 | forbidden access to the api | access denied by ACL | 'Unauthorized Access Layer' or 'Unauthorized applicationId' or 'Unauthorized country' |
| 403 | 1201 | forbidden access to the api | forbidden transaction | you are not allowed to do this action |
| 403 | 1202 | forbidden access to the api | invalid merchant key | your merchant key is wrong. you need to check it |

# Developer

| http code | API P code | Message | Description | Comments |
|---|---|---|---|---|
| 403 | 1203 | forbidden access to the api | Unauthorized currency for this country | Check the currency you put in your request |
| 403 | 1204 | forbidden access to the api | Order Already exists | The order_id must be unique in the system. Only one Token per order_id |

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