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# Orange Money WebPay Dev

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

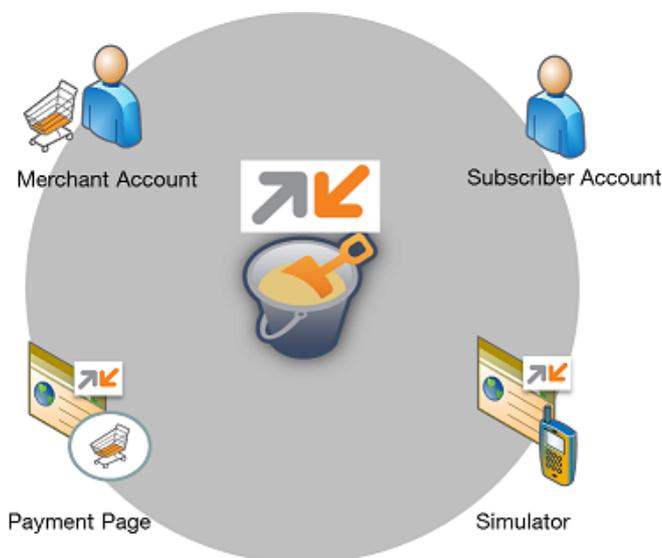
1.0

Use this API (/myapps/new/addapi/om-webpay-dev)

API reference (/apis/om-webpay-dev/api-reference) ▼

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

- The Web Payment Sandbox is a 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

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

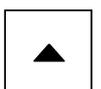
video (<https://www.dailymotion.com/embed/video/x4o3q40>)

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

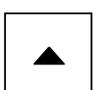
You have been invited to subscribe the Orange Money Web Payment API. You are about to use your merchant wallet in a secure way to offer a new payment method to your customers.

#### 1.1 Application creation

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



The screenshot shows a web browser window with the URL `https://developer.orange.com/myapps`. The page header includes the Orange Developer logo, navigation links for APIs, Tools, and Support, and a 'My apps' button. The main heading is 'My apps', followed by a sub-heading: 'Register an application now to subscribe to an API or browse the site and come back to register it later'. Below this is a four-step process flow: 1. Create your application (highlighted in orange), 2. Add and configure APIs, 3. Integrate APIs into your service, and 4. Check your statistics. The registration form contains two fields: 'Application name' with the value 'MyWebPayApp' and a green checkmark, and 'Description' with the value 'test of Orange Web Payment' and a green checkmark. A 'Create' button is positioned to the right of the description field.



The screenshot shows a web browser window with the URL <https://developer.orange.com/myapps/UsmQ>. The page header includes the Orange Developer logo, navigation links for APIs, Tools, and Support, and a 'My apps' button. A green notification box at the top states: "Application 'MyWebPayApp' has been created. Now click 'Add an API' to subscribe to an API and activate your client ID." Below this, the 'Details' section for 'MyWebPayApp' is visible, showing the application ID 'UsmQWi4reGPDgp9N', a 'Client ID' field with a masked value, and a 'Client secret' field with a masked value. The status is 'Pending'. There is an 'Add an API' button in the 'Subscribed APIs' section, which currently contains a message: "You have not yet subscribed to any APIs for this app. Add an API now to activate your client ID." A 'Delete app' button is located at the bottom right of the application details.

## 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

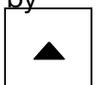
Subscriber:

- MSISDN: 7701100100
- PIN: xxxx

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

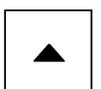
- [georgiana.cruceu@orange.com](mailto:georgiana.cruceu@orange.com) (mailto:georgiana.cruceu@orange.com)

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



The screenshot shows a web browser window with two tabs. The active tab is titled 'Orange Developer - Add a...' and the address bar shows 'https://developer.orange.com/myapps/UmUjZMGGr5h4'. The page header includes the Orange logo, 'Orange Developer', and navigation links for 'APIs', 'Tools', and 'Support'. A 'My apps' button is visible in the top right. The main content area is titled 'My apps > MyWebPayApp > Add API'. A progress indicator shows step 1: 'Choose an API'. Below this, there is a dropdown menu for 'Select an API' with 'Orange Money WebPay Dev' selected. Two input fields are present: 'Merchant Account Number' with the value '7701900100' and a green checkmark, and 'Merchant Code' with the value '101021' and a green checkmark. Explanatory text for each field states: 'This is the phone number linked to your Orange Money merchant account.' and 'This is the 6-digit code that was provided by the Orange Money representative when you opened your web merchant account.' respectively. A 'Next' button is located at the bottom left of the form area.

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 the service. If you do not know your Merchant Code, please contact your local Orange Money support team.



The screenshot shows the Orange Developer web interface. At the top, there's a navigation bar with the Orange logo, 'Orange Developer' text, and links for 'APIs', 'Tools', and 'Support'. A 'My apps' button is on the right. Below the navigation bar, a yellow notification box displays an important message: 'IMPORTANT: You MERCHANT KEY is a86b2087. A confirmation email will be sent to you, in the meantime copy and save it, you will need it for API integration.' The main content area is titled 'Details' and shows the application 'MyWebPayApp' with a description 'test of Orange Money Web Payment documentation'. Below this, the 'Application ID' is 'UmUjZMGGnr5h4Dzm'. The 'Client ID' is masked with dots, and the 'Client secret' is also masked. The status is 'Approved'. There are buttons for 'Edit', 'Show', and 'Renew'. The 'Subscribed APIs' section shows a table with one entry: 'Orange Money WebPay Dev' with version '1.0' and status 'Approved'. There is a 'Remove' button for this API. The 'Statistics' section shows 'No API calls received yet' for the 'Last 30 days' period. A 'Delete app' button is located at the bottom right.

**IMPORTANT:** The Merchant key will be used as Orange Money account identifier for all payments 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}" \
-d "grant_type=client_credentials" \
https://api.orange.com/oauth/v2/token
```

```
HTTP/1.1 200 OK
Content-Type: application/json
{
  "token_type": "Bearer",
  "access_token": "WI9VmGXfNB38s1e6A26Hob19AP2c",
  "expires_in": "7776000"
}
```

Consumer\_key is in Authorization header, by clicking on “Show” button:

The screenshot shows the Orange Developer web interface. The browser address bar displays the URL `https://developer.orange.com/myapps/UmUjZMGGr5h4Dzm`. The page header includes the Orange Developer logo and navigation links for APIs, Tools, and Support. The main content area shows the details for an application named "MyWebPayApp". The "Application ID" is "UmUjZMGGr5h4Dzm". The "Client ID" is "akCsGjXLer6vmrwjgQXcvNwdLbjgOuT" and the "Client secret" is "cwGr3D4WYCPXOeTP". The "Authorization header" is highlighted, showing the value "Basic YWtDc0dqbfhMRXI2dm1yd2pnUVhjdk53ZExiamdPdVQ6Y3dHcjNENFdZQ1BYT0V0UA==".

So, in the example:

```
curl -X POST -H "Authorization: Basic YWtDc0dqbfhMRXI2dm1yd2pnUVhjdk53ZExiamdPdVQ6Y3dHcjNENFdZQ1BYT0V0UA==" \
-d "grant_type=client_credentials" \
https://api.orange.com/oauth/v2/token
```



```
HTTP/1.1 200 OK
Content-Type: application/json
{
  "token_type": "Bearer",
  "access_token": "IW3gdUV0vQVc07mGNs0ZgwdhDNvE",
  "expires_in": "7776000"
}
```

**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 have a lifetime of about **90 days**.

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

You can get more details about token here ([https://developer.orange.com/tech\\_guide/2-legged-oauth/](https://developer.orange.com/tech_guide/2-legged-oauth/)).

### 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.

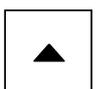
#### 3.1 Web Payment request

##### 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 IW3gdUV0vQVc07mGNs0ZgwdhDNvE
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/f5720dd906203c62033ffe64ed75614785878b0ab2231d9c582b2908fca0ab9a",
  "notif_token":"dd497bda3b250e536186fc0663f32f40"
}
```

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

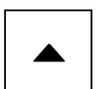
The field reference refers to the merchant name

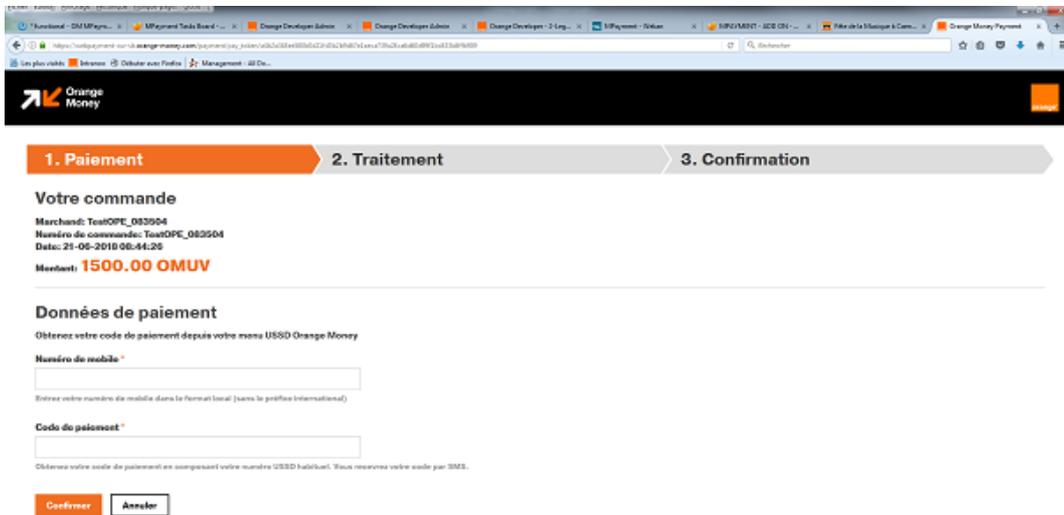
You can find below an example of the code for a postman request:

```
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": "Test0PE_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) (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, a HTTP notification will be posted to the `notif_url` you sent in the web payment request.

### 3.1.2 Web Payment request URLs

There is 3 urls in the webpayment request:

- `return_url`: the url of the web site where the customer will return when the payment will be finished and the customer decide to click on the return link of the web payment web site
- `cancel_url`: the url of the web site where the customer will return when the payment will be canceled by the customer by clicking on the cancel link of the web payment web site
- `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 dynamics urls that depends on the merchant web site context (e.g. with url parameters like "`&returnOnCart=1`", "`&referrer=site1.com`").

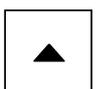
One WebPayment account can be used to centralize the merchant money of multiple web sites by putting the same credentials/`merchant_key` in the requests sent to the WebPayment backend. Because the webpayment request urls parameters are dynamically set during the build of the body of the request, each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

Example:

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:

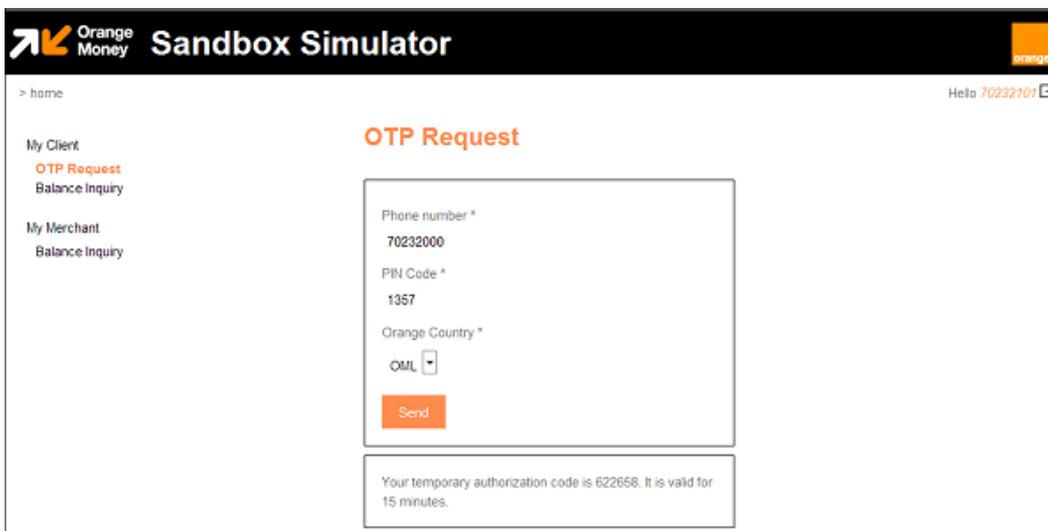
- OTP request
- Merchant Balance request
- Subscriber Balance request

You can access the Simulator: <https://simulator.webpayment-ow-sb.orange-money.com/simulator> (<https://simulator.webpayment-ow-sb.orange-money.com/simulator>)

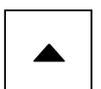


You can login with the merchant account provided for the Sandbox (login: Merchant Account Number, password: channel user Id).

Then you can request for an OTP with the subscriber PIN code.

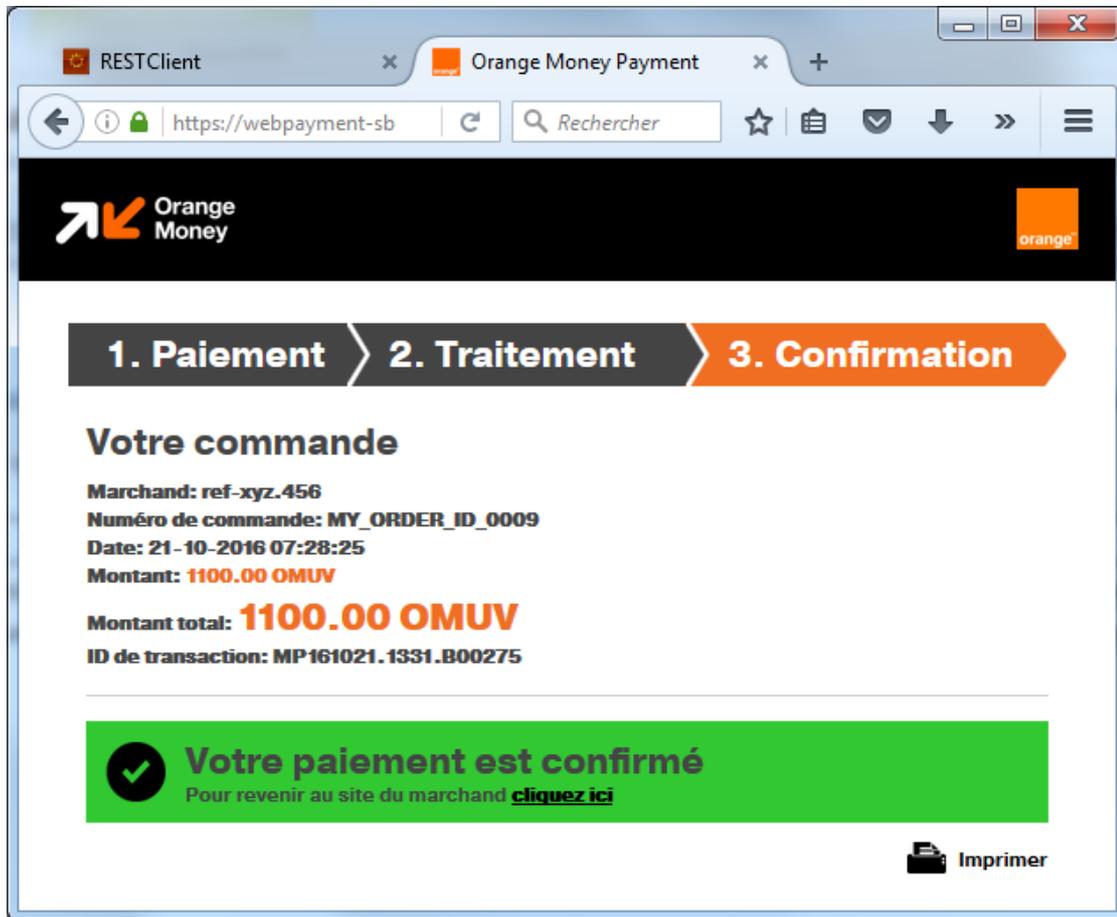


You just have to fill the OTP code in the payment page, and click on “Confirmer”:



The screenshot shows the Orange Money payment interface. At the top, there are three steps: 1. Paiement (highlighted in orange), 2. Traitement, and 3. Confirmation. Below this, the 'Votre commande' section displays: Marchand: ref-xyz.115, Numéro de commande: ORDTIS\_0000, Date: 23-11-2015 11:08:25, and Montant: 1000.00 OMOV. The 'Données de paiement' section instructs the user to obtain a payment code from the USSD menu. It contains two input fields: 'Numéro de mobile' with the value 762190001 and 'Code de paiement' with the value 0TP. Below the inputs are 'Confirmer' and 'Annuler' buttons.

Once MSISDN and OTP are filled in 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

In addition of 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 notification 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

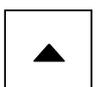
- INITIATED waiting for user entry
- PENDING user has clicked on “Confirmer”, transaction is in progress on Orange side
- EXPIRED user has clicked on “Confirmer” too late (after token’s validity)
- SUCCESS payment is done
- FAILED payment has failed

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

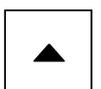
## 5. API reference

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

## 6. Troubleshooting



<b>Error message</b>	<b>Description</b>	<b>Solution</b>	<b>Contact</b>
Simulator – Authentication error	The developer is not able to log to the simulator	Verify the test <b>Channel User</b> credentials are right. Login : MSISDN Merchant (ex: <b>7701900008</b> ) Pwd : id/login merchant (ex: <b>MerchantWP00008</b> )	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	<a href="https://developer.orange.com/support/contact-us">https://developer.orange.com/support/contact-us</a> ( <a href="https://developer.orange.com/support/contact-us">https://developer.orange.com/support/contact-us</a> )
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.cruцерu@orange.com (mailto:georgiana.cruцерu@orange.com))
Subscription to an application - An error as occurred, please try again later		When the error appears at first subscription please verify “Merchant Account Number”. When the error appears at subscription after the developer deleted subscription. 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)



<b>Error message</b>	<b>Description</b>	<b>Solution</b>	<b>Contact</b>
Using API – Unauthorized to access the API	Wrong country	check the URL that 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

<b>http code</b>	<b>API code</b>	<b>Message</b>	<b>Description</b>	<b>Comments</b>
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



http code	API code	Message	Description	Comments
403	1202	forbidden access to the api	invalid merchant key	your merchant key is wrong. you need to check it
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

## Find us on

-  (<https://twitter.com/OrangeDev>)
-  (<https://www.linkedin.com/groups/2842716>)
-  ([https://www.youtube.com/channel/UC-H3yaXICSD461bn75c\\_X5A](https://www.youtube.com/channel/UC-H3yaXICSD461bn75c_X5A))
-  (<https://github.com/Orange-OpenSource>)
-  (<https://www.programmableweb.com/company/orange>)

## Co-innovate

(<https://developer.orange.com/>)  
 Identity & authentication (/identity-and-authentication/)  
 IoT & data analytics (/iot-and-data-analytics/)  
 Monetization & payment (/monetization-and-payment/)

## Products

(<https://developer.orange.com/products/>)  
 Europe (/europe-catalogue/)  
 Middle East & Africa (/products-middle-east-and-africa/)

## Blog

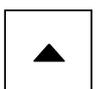
(/blog)  
 Events (/blog/?type=events)  
 News (/blog/?type=post)  
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