

TOUCHAPI

This document is an integration guide for webmasters and e-commerce site developers to use TouchPay as an aggregator of online payment methods.

TouchPay is a solution that allows an e-merchant to offer multiple payment methods to his customers through a single account.

The developer obtains authorization to access the API and can use the functions offered by the API to create, search or cancel a transaction.

Once the transaction is completed, the API returns a callback with the status of the transaction.

Some payment methods are asynchronous; i.e. the success or failure of the payment is only known several minutes or several hours after the transaction.

I. Creation of a test account in dev environment

A test account allows you to simulate payments during your integration tests with our APIs. We will specify the name, email address and balance of the fictitious customer. Intouch removes the amount of the test invoices from the balance of the fictitious customer when payments are made.

Note that it is possible to create several fictitious accounts and recharge them manually anytime during the test.

NB : Also before going into production, note that all payment methods must be tested in dev and also the tests must be conclusive to ensure that everything works as you want.

First, download insomnia : **<https://insomnia.rest/>** and import the JSON we sent you. You have among others the GET BALANCE, INIATIAE TRANSACTION (AIRTIME,CASHIN,CASHOUT,CASHOUT,CASHOUT,FACTURER etc...) as well as the GET STATUS TRANSACTION.

1. GETBALANCE

Recovery of the balance from a distributor account. It is of the form:

Request

- **METHOD** : GET
- **URL_DEV** :
`https://dev-api.gutouch.com/dist/api/touchpayapi/v1/XXXXXX/utills?loginAgent=XXXXXXXX&passwordAgent=0000`
- **URL_PROD**:
`https://api.gutouch.com/dist/api/touchpayapi/v1/partner_id/utills?loginAgent=XXXX&passwordAgent=XXXX`

At the URL you have these fields :

- `partner_id` : Distributor ID provided by Intouch
- `loginAgent`: ID assigned to the partner
- `passwordAgent` : password assigned to the partner

AUTHENTICATION

- TYPE : digest
- LOGIN : MTN
- PASSWORD : passer

Example :

- REQUEST

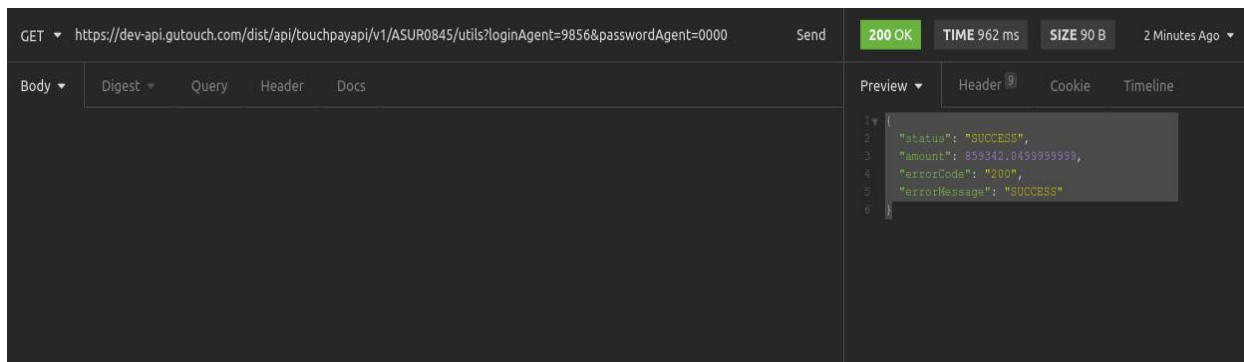
URL :

<https://dev-api.gutouch.com/dist/api/touchpayapi/v1/XXXXXX/utls?loginAgent=XXXXX&passwordAgent=0000>

NO BODY

- RESPONSE

```
{
  "status": "SUCCESS",
  "amount": 859342.0499999999,
  "errorCode": "200",
  "errorMessage": "SUCCESS"
}
```



2. INITIATE TRANSACTION

a) CASHIN

Validation of a UV sale to a customer, with an operator.Recovery of the balance from a distributor account. It is of the form:

Request

- METHOD : POST
- URL_DEV : https://dev-api.gutouch.com/v1/agency_code/cashin

- **URL_PROD**: https://api.gutouch.com/v1/agency_code/cashin

At the URL you have these fields :

- **agency_code** : Distributor ID provided by Intouch

AUTHENTICATION

- **TYPE** : basic
- **LOGIN** : MTN
- **PASSWORD** : passer

BODY

```
{
  "service_id": service_code,
  "recipient_phone_number": recipient_number,
  "amount": amount,
  "partner_id": pixi_code
  "partner_transaction_id": id_transaction,
  "login_api": login_agent,
  "password_api": password_agent,
  "call_back_url": callback
}
```

In terms of elements in the JSON:

- **service_id** : ID of the service provided by Intouch
- **recipient_phone_number** : customer's phone number
- **amount** : transaction amount
- **partner_id** : pixi code provided by Intouch
- **partner_transaction_id** : transaction ID provided by Intouch
- **login_api** : ID assigned to the partner
- **Password_api** : password assigned to the partner
- **Callback_url** : partner's callback url

Example :

- **REQUEST**

URL : <https://dev-api.gutouch.com/v1/XXXXXX/cashin>

BODY :

```
{
  "service_id": "CASHINOM",
  "recipient_phone_number": "778036534",
  "amount": 500,
  "partner_id": "EZ001",
  "partner_transaction_id": "sew-523116122145410-dd2",
  "login_api": "77339911",
  "password_api": "0000",
  "call_back_url": "GUTOUCH.COM"
}
```

- RESPONSE

```
{
  "service_id": "CASHINOM",
  "gu_transaction_id": "1573235098697",
  "status": "PENDING",
  "transaction_date": "2019/11/08 17:44:58 PM",
  "recipient_phone_number": "778036534",
  "amount": 500.0,
  "partner_transaction_id": "sew-523116122145410-dd2"
}
```

The screenshot displays a REST client interface with a POST request to `https://dev-api.gutouch.com/v1/XXXXX/cashin`. The request body is a JSON object containing transaction details. The response is a 200 OK status with a response body that is a subset of the request body, specifically containing the transaction ID, status, date, phone number, amount, and partner transaction ID.

Method	URL	Status	Time	Size
POST	https://dev-api.gutouch.com/v1/XXXXX/cashin	200 OK	1.01 s	15 Days Ago

JSON

```
1 {
2   "service_id": "CASHINOM",
3   "recipient_phone_number": "778036534",
4   "amount": 500,
5   "partner_id": "EZ001",
6   "partner_transaction_id": "sew-523116122145410-dd2",
7   "login_api": "77339911",
8   "password_api": "0000",
9   "call_back_url": "GUTOUCH.COM"
10 }
```

Preview

```
1 {
2   "service_id": "CASHINOM",
3   "gu_transaction_id": "1573235098697",
4   "status": "PENDING",
5   "transaction_date": "2019/11/08 17:44:58
6   PM",
7   "recipient_phone_number": "778036534",
8   "amount": 500.0,
9   "partner_transaction_id": "sew-
10 523116122145410-dd2"
11 }
```

b) **CASHOUT**

Cash withdrawal by a customer from an operator request.

- **METHOD** : POST
- **URL_PROD** : https://api.gutouch.com/v1/agency_code/cashout_request
- **URL_DEV** : https://dev-api.gutouch.com/v1/agency_code/cashout_request

At the URL you have these fields :

- **agency_code** : Distributor ID provided by Intouch

AUTHENTICATION

- **TYPE** : basic
- **LOGIN** : MTN
- **PASSWORD** : passer

BODY

```
{
  "service_id": service_code,
  "recipient_phone_number": recipient_number,
  "amount": amount,
  "partner_id": pixi_code
  "partner_transaction_id": id_transaction,
  "login_api": login_agent,
  "password_api": password_agent,
  "call back url": callbackurl
}
```

In terms of elements in the JSON:

- **service_id** : ID of the service provided by Intouch
- **recipient_phone_number** : customer's phone number
- **amount** : transaction amount
- **partner_id** : pixi code provided by Intouch
- **partner_transaction_id** : transaction ID provided by Intouch
- **login_api** : ID assigned to the partner
- **Password_api** : password assigned to the partner
- **Callback_url** : partner's callback url

Example :

- REQUEST

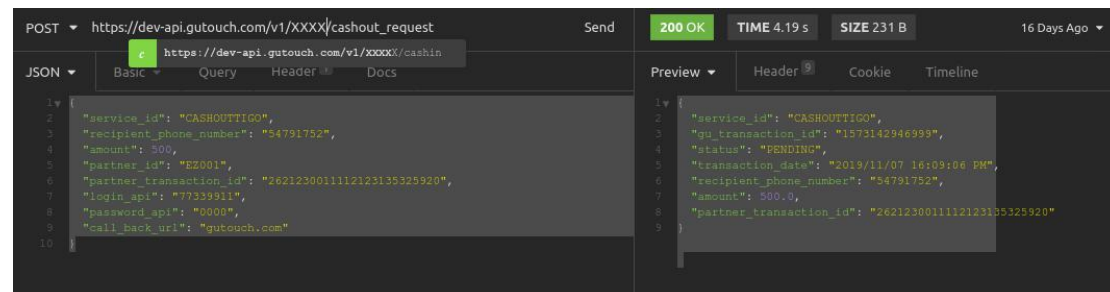
URL : https://dev-api.gutouch.com/v1/XXXXX/cashout_request

BODY :

```
{
  "service_id": "CASHOUTTIGO",
  "recipient_phone_number": "54791752",
  "amount": 500,
  "partner_id": "EZ001",
  "partner_transaction_id": "2621230011112123135325920",
  "login_api": "77339911",
  "password_api": "0000",
  "call_back_url": "gutouch.com"
}
```

- RESPONSE

```
{
  "service_id": "CASHOUTTIGO",
  "gu_transaction_id": "1573142946999",
  "status": "PENDING",
  "transaction_date": "2019/11/07 16:09:06 PM",
  "recipient_phone_number": "54791752",
  "amount": 500.0,
  "partner_transaction_id": "2621230011112123135325920"
}
```



c) **AIRTIME**

Validation of a sale of a telephone credit to a customer, with an operator.

- **METHOD** : POST
- **URL_DEV** : https://dev-api.gutouch.com/v1/agency_code/airtime
- **URL_PROD** : https://api.gutouch.com/v1/agency_code/airtime
 - agency_code : Distributor ID provided by Intouch

AUTHENTICATION

- **TYPE** : basic
- **LOGIN** : MTN
- **PASSWORD** : passer

BODY

```
{
  "service_id": service_code,
  "recipient_phone_number": recipient_number,
  "amount": amount,
  "partner_id": pixi_code
  "partner_transaction_id": id_transaction,
  "login_api": login_agent,
  "password_api": password_agent,
  "call_back_url": callbackurl
}
```

In terms of elements in the JSON:

- service_id : ID of the service provided by Intouch
- recipient_phone_number : customer's phone number
- amount : transaction amount
- partner_id : pixi code provided by Intouch
- partner_transaction_id : transaction ID provided by Intouch
- login_api : ID assigned to the partner
- Password_api : password assigned to the partner
- Callback_url : partner's callback url

Example :

- REQUEST

URL : <https://dev-api.gutouch.com/v1/XXXX/airtime>

BODY :

```
{
  "service_id": "AIRTIMEORANGE",
  "recipient_phone_number": "776579846",
  "amount": 100,
  "partner_id": "EZ001",
  "partner_transaction_id": "311211121210000laa11213124221245521415115",
  "login_api": "77339911",
  "password_api": "0000",
  "call_back_url": "gutouch.com"
}
```

- RESPONSE

```
{
  "service_id": "AIRTIMEORANGE",
  "gu_transaction_id": "1574556177189",
  "status": "PENDING",
  "transaction_date": "2019/11/24 00:42:57 AM",
  "recipient_phone_number": "776579846",
  "amount": 100.0,
  "partner_transaction_id": "311211121210000laa11213124221245521415115"
}
```

The screenshot displays a REST client interface with the following details:

- Method:** POST
- URL:** <https://dev-api.gutouch.com/v1/EZ0846/airtime>
- Status:** 200 OK
- Time:** 256 ms
- Size:** 250 B
- Tab:** JSON
- Request Body:**

```
1 {
2   "service_id": "AIRTIMEORANGE",
3   "recipient_phone_number": "776579846",
4   "amount": 100,
5   "partner_id": "EZ001",
6   "partner_transaction_id": "311211121210000laa11213124221245521415115",
7   "login_api": "77339911",
8   "password_api": "0000",
9   "call_back_url": "gutouch.com"
10 }
```
- Response Body:**

```
1 {
2   "service_id": "AIRTIMEORANGE",
3   "gu_transaction_id": "1574556177189",
4   "status": "PENDING",
5   "transaction_date": "2019/11/24 00:42:57 AM",
6   "recipient_phone_number": "776579846",
7   "amount": 100.0,
8   "partner_transaction_id":
9     "311211121210000laa11213124221245521415115"
10 }
```


3. GET_STATUS_TRANSACTION

It may be that for reasons x or y, the payment confirmation is not instantaneous (for example, the time the customer enters his secret code on his phone or the latency time of the phone network), the getStatus allows you to instantly receive the transaction information when the payment is confirmed.

The client whose request response status is "PENDING" will receive the final status of the transaction via its call_back_url.

Get_status_transaction is used to check the status of a transaction... It is of the form :

Request

- **METHOD :** GET
- **URL :**
`https://dev-api.gutouch.com/dist/api/touchpayapi/v1/partner_id/transaction/idFromClient?loginAgent=xxxx&passwordAgent=xxxx`

At the URL you have these fields :

- partner_id : Distributor ID provided by Intouch
- loginAgent: ID assigned to the partner
- passwordAgent : password assigned to the partner
- idFromClient : id of the transaction whose status we want to know

AUTHENTICATION

- TYPE: digest
- LOGIN : MTN
- PASSWORD : passer

Example :

- REQUEST
URL :
`https://dev-api.gutouch.com/dist/api/touchpayapi/v1/EZ0846/transaction/311211121210112134221245521415115?loginAgent=77339911&passwordAgent=0000`

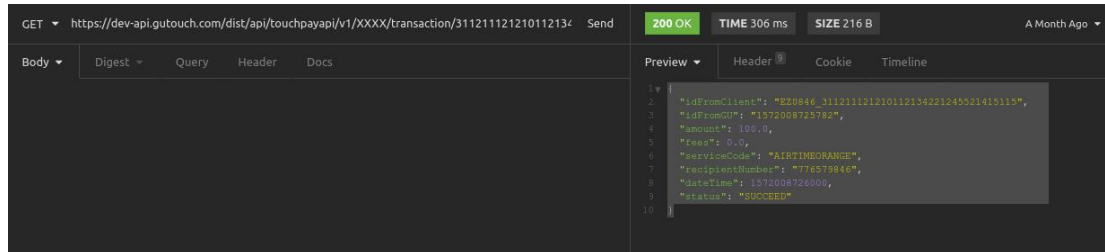
NO BODY

- RESPONSE
{
 "idFromClient": "EZ0846_311211121210112134221245521415115",
 "idFromGU": "1572008725782",
 "amount": 100.0,
 "fees": 0.0,

```

"serviceCode": "AIRTIMEORANGE",
"recipientNumber": "776579846",
"dateTime": 1572008726000,
"status": "SUCCEED"
}

```



4. Call Back Operation TOUCHPAYAPI

The successfully exit of the payment tunnel does not mean that the payment is completed and received. Indeed, some payments are asynchronous and are completed outside the payment tunnel. An url to Receive the notification of the end of payment is required.

The result (Failure or success) will then be sent to the settlement of the transaction. It must meet certain specifications.

- Implement a WS method : type POST (application/json)
- The method must not have any authentication (Basic, Bearer, etc...)
- The body of the request has to look like this :

```

{"service_id": "String", (code of the service)
"gu_transaction_id": "String", (Id from Intouch)
"status": "String", (Final status of the request : SUCCESSFUL ou FAILED)
"partner_transaction_id": "String", (Your Id)
"call_back_url": "String", (your call back URL)}

```

Example :

```

{
  "service_id": "PAIEMENTMARCHANDOM",
  "gu_transaction_id": "1571415832416",
  "status": "SUCCESSFUL",
  "partner_transaction_id": "aff95b1b1463a941645bf7ab2bc6ca17",
  "call_back_url": "https://callbackurl.com/",
  "commission": 0.0
}

```

II. Switch to Production mode (Actual transactions)

After making sure that your integration works correctly in a dev environment, you can switch to production mode, but just some information such as the agency name, agent number and account details (such as login and password in the authentication) will change.

After the integration in dev and you confirm that you want to go into production, we will notify our operations teams who will create your production accounts and then we will send you via email a file with the information about your production agency and what needs to be changed.

Also it is to be noted that in production the payments are real payments and that you will be debited, so in the framework of the test in prod we will suggest you to test with small amounts.