



Developer Starter Guide

Version 1.1.3



hipay **mobile**
micropayment solutions

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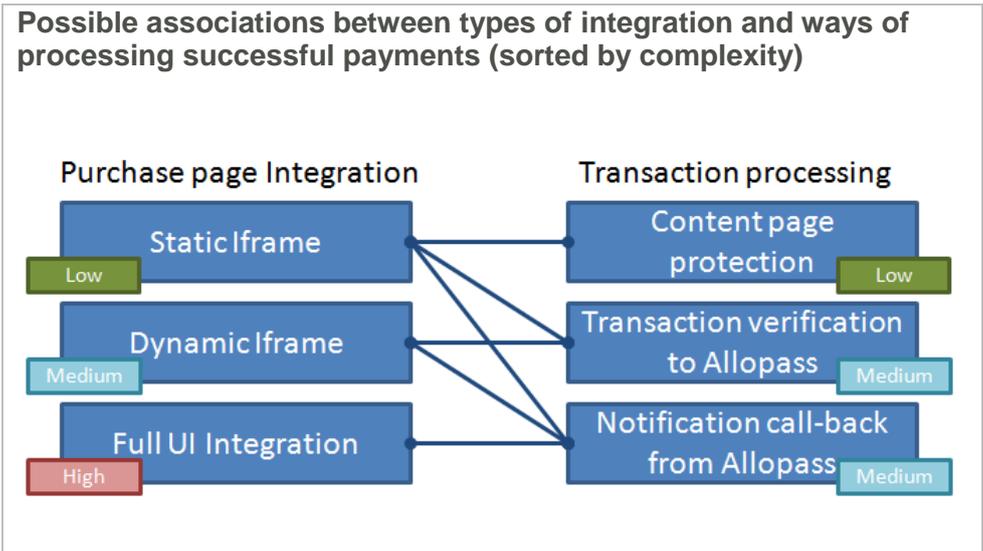
Introduction

Description In this document, we outline several different approaches to integrating HiPay Mobile payments on your website.

- Parts of an HiPay Mobile integration**
- There are two main parts to an HiPay Mobile integration:
- The Purchase Page: The web interface by which your end-users pay you
 - Transaction processing of a successful payment: The confirmation that you receive from HiPay Mobile that a purchase transaction has succeeded.

You have a lot of flexibility in deciding how to integrate HiPay Mobile.

Diagram There are three different ways to integrate HiPay Mobile into your purchase page, and three different ways to process received payments.



Finding Making the best choice of integration for your business will highly impact the success of your payment strategy.

Recommendation It is strongly recommended to read this document before diving into the details of the HiPay Mobile API.

Aim of the document Here you will learn how to make a Static iframe and Full UI integration, to know how to integrate a dynamic iframe using our SDK and the advanced HiPay Mobile API please refer to the **HiPay Mobile API Developer Reference Manual**.

Static Payment iFrame

Overview

Features

- The easiest way to offer any or all payment methods, with no coding effort
- Supports a wide number of payment methods in an integrated user experience
- End-users are only presented with the payment methods available in their country

Prerequisites

- Ability to edit your website's HTML source code

User Experience

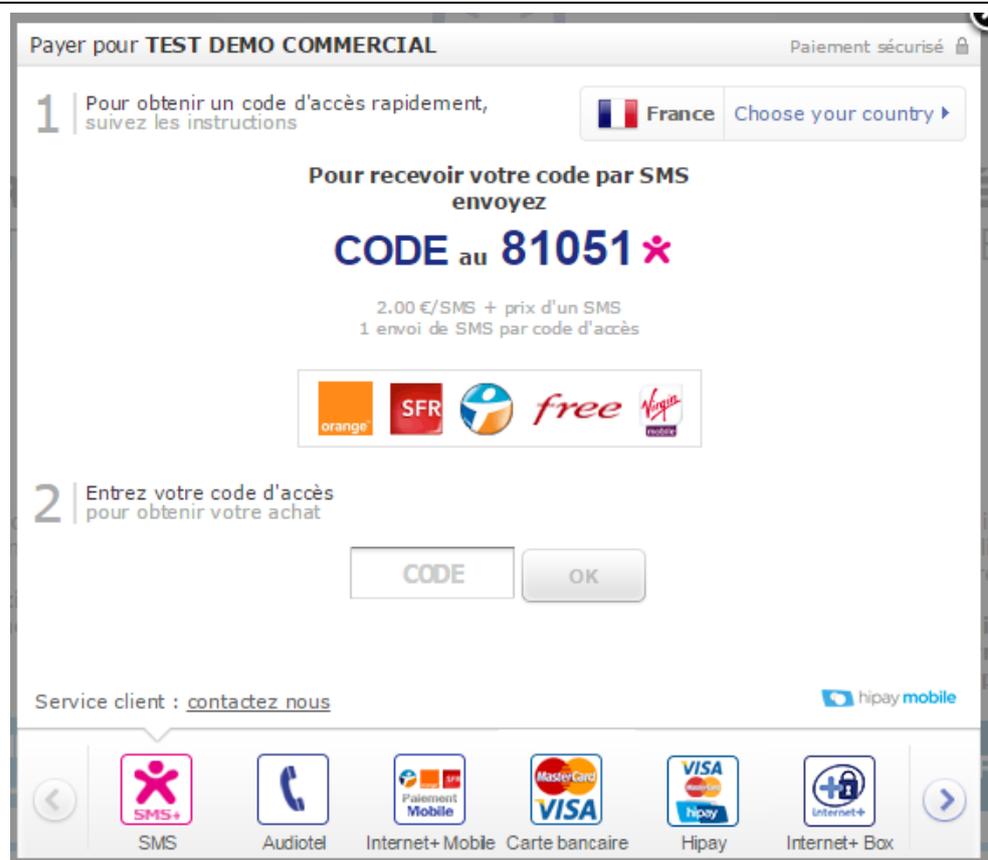


Image 1: Example of an HiPay Mobile purchase iframe

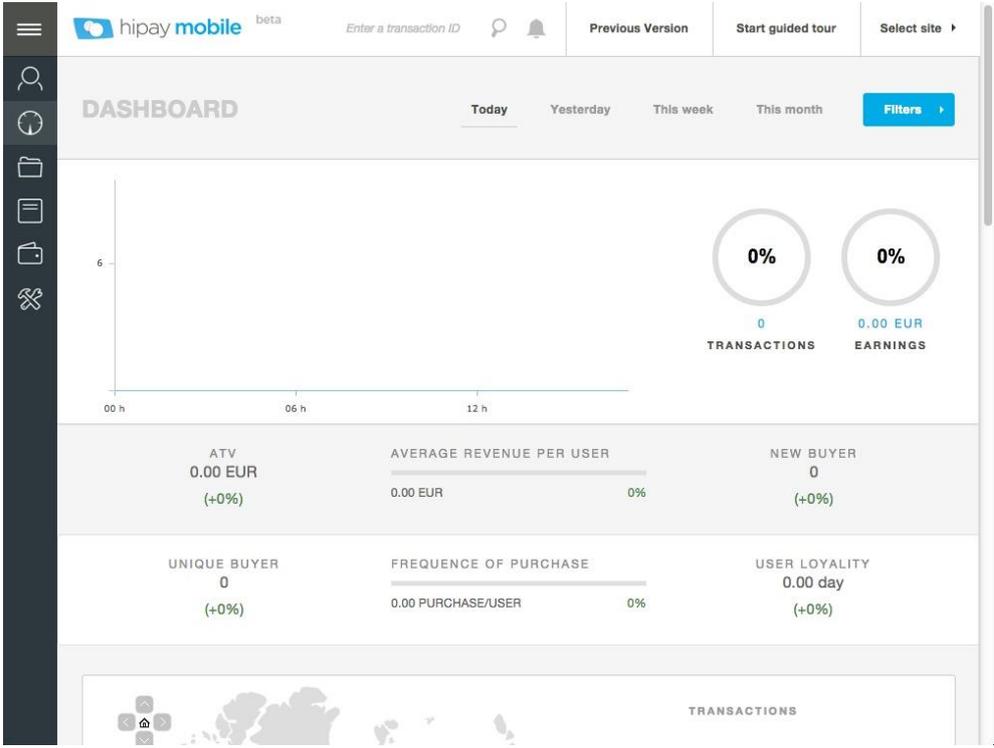
Getting started, a step-by-step walkthrough

Merchant account registration

Introduction In order to use HiPay Mobile, you will need to set up an HiPay Mobile account.

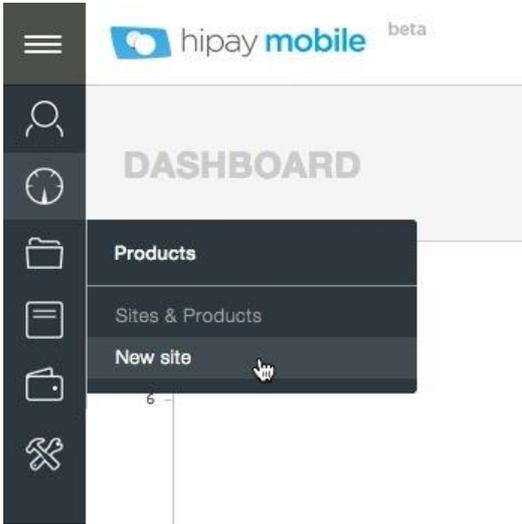
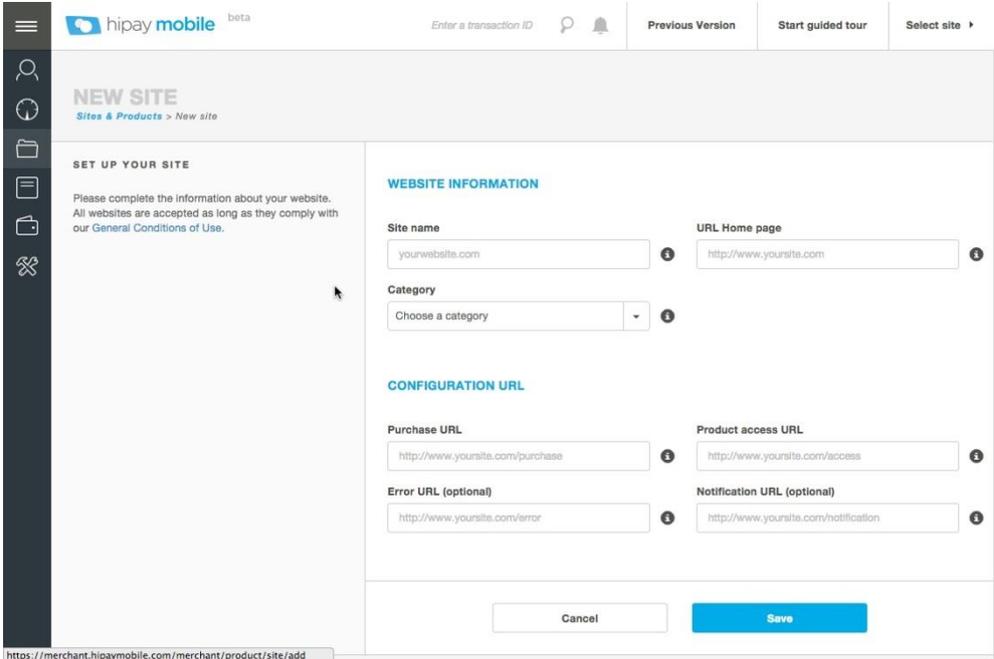
It's a simple process which can be completed online.

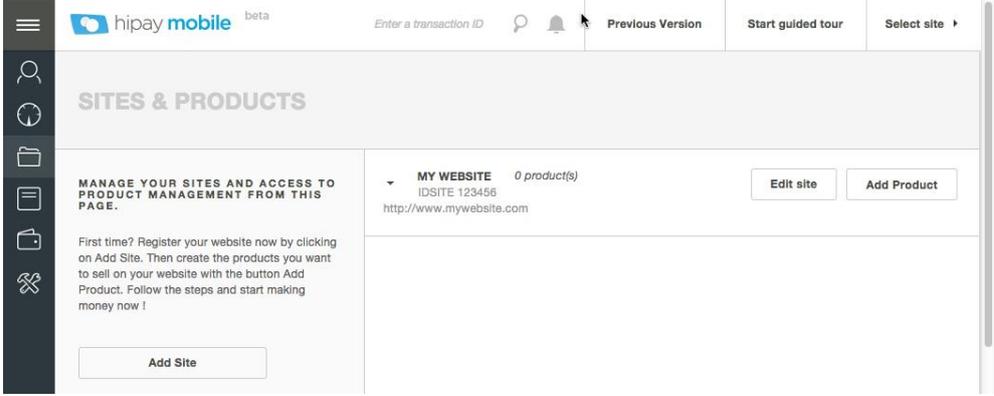
Procedure To set up an HiPay Mobile account, proceed as follow:

Steps	Action
1	Go to www.hipaymobile.com ,
2	Click "START NOW", and follow the instructions.
3	Once you've set up your HiPay Mobile account, go to https://merchant.hipaymobile.com and login.
4	<p>Once you're logged in, you'll see the "Dashboard" screen below.</p> 

Define your site

Procedure (continuation)

Steps	Action
5	<p>Go to “Products -> New site” to define your site</p>  <p>The screenshot shows the HiPay Mobile dashboard. On the left is a dark navigation sidebar with icons for home, profile, clock, folder, list, document, and tools. The main area displays the 'DASHBOARD' title. A 'Products' menu is open, showing options for 'Products', 'Sites & Products', and 'New site', with a mouse cursor pointing at 'New site'.</p>
6	<p>Fill all required information and click “Save”.</p>  <p>The screenshot shows the 'NEW SITE' configuration page. The left sidebar contains the same navigation icons as in step 5. The main content area is titled 'NEW SITE' and includes a 'SET UP YOUR SITE' section with instructions. The 'WEBSITE INFORMATION' section contains fields for 'Site name' (filled with 'yourwebsite.com'), 'URL Home page' (filled with 'http://www.yoursite.com'), and a 'Category' dropdown menu. The 'CONFIGURATION URL' section contains four optional URL fields: 'Purchase URL' (filled with 'http://www.yoursite.com/purchase'), 'Product access URL' (filled with 'http://www.yoursite.com/access'), 'Error URL (optional)' (filled with 'http://www.yoursite.com/error'), and 'Notification URL (optional)' (filled with 'http://www.yoursite.com/notification'). At the bottom are 'Cancel' and 'Save' buttons.</p> <p>→ The “Site” information is used to distinguish between multiple websites in your HiPay Mobile account.</p>

Steps	Action
7	<p>Note: The IDSITE is under your site name on the "Sites & Products" page.</p> <p>You will need it later during your integration.</p> 

URL Settings

Description

HiPay Mobile needs to be able to redirect to some of your pages for events such as payment success, payment errors or to send call-back notifications. If you set your URLs in your site configuration they will be pre-filled by default on all new product created inside the site.

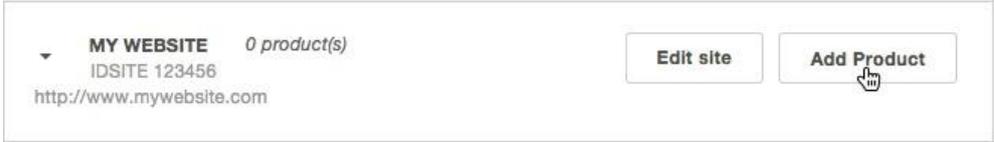
URL list

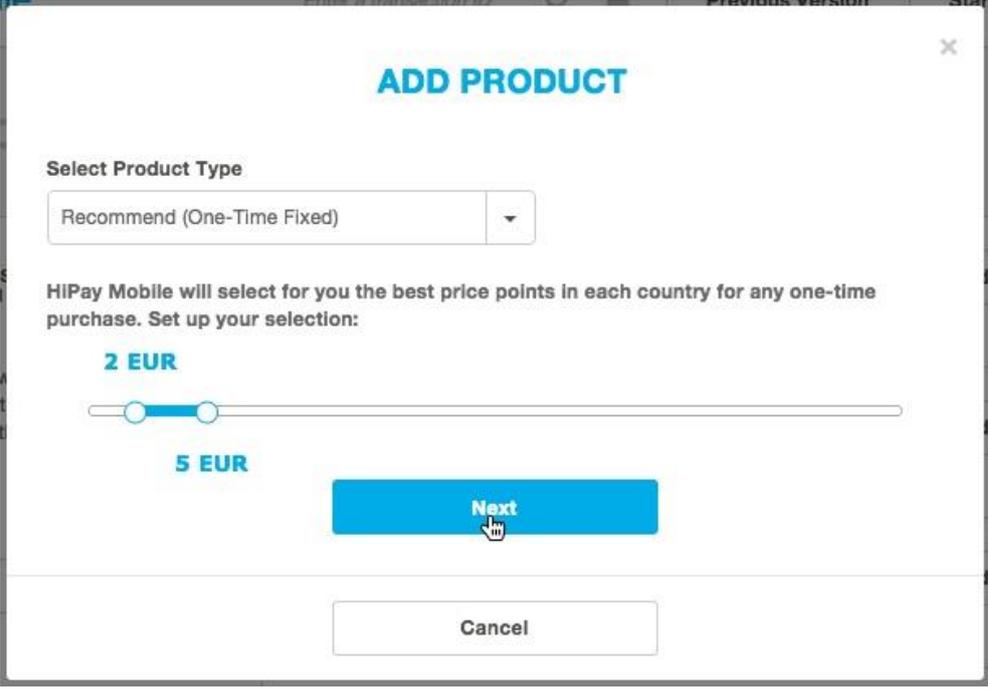
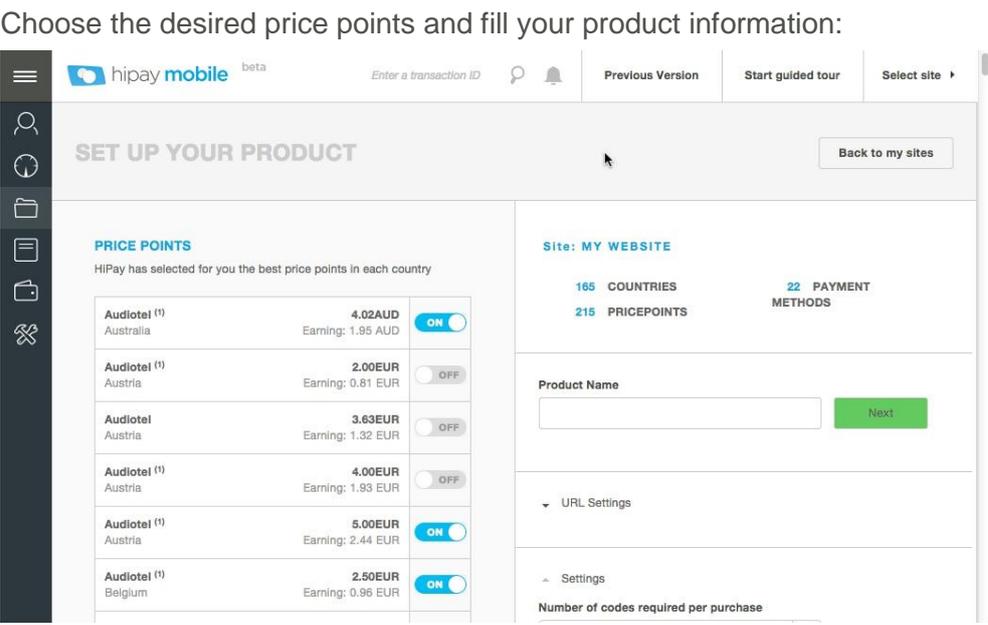
URL	Description
Purchase URL	The purchase page where you intend to embed the HiPay Mobile iframe or display a payment button.
Product access URL	HiPay Mobile will redirect to this page after a successful purchase.
Error URL	HiPay Mobile will redirect to this page when an error occurs. If you leave this blank, the default HiPay Mobile error page will be used.
Notification URL	HiPay Mobile will call this URL upon successful purchase (see "Call HiPay Mobile from the Product Access URL to verify transactions" section)

Set-up products on the HiPay Mobile merchant back-office

Add a product

Procedure To set up products on HiPay Mobile merchant back office, proceed follow:

Steps	Action
1	<p>From the "Sites & Products" page, click on "Add Product" on the right of your site information line.</p> 
2	<p>Select the product type based on the following table:</p> <ul style="list-style-type: none"> • Recommend (One-Time Fixed): HiPay Mobile will select for you the best price points in each country for any one-time purchase based on a price range. • Manual (One-Time Fixed): You will be able to choose among a wide range of different price points and filter them for any one-time purchase. • One-Time Dynamic: Fix by yourself the price you want to display to your customers. HiPay Mobile provides a wide choice of payment solutions in each country for any one-time purchase (except Premium Text Message and IVR). • Subscription: Set up the amount and the frequency of billings made by your customers. All our subscriptions are automatically renewed. Available for Mobile Payment and ISP Billing. • Old Subscription: Decide the frequency and the amount charged to your customers by using credit card and prepaid card. You will be redirected to the previous version of the interface. • Virtual Currency: Create your virtual currency with our payment scripts. Enter the exchange rate of your virtual currency and customise the script with your own style. You will be redirected to the previous version of the interface. • Pay-Per-Minute: Your customer is on the phone with a vocal server for the whole duration of his call. Once he hangs up, he has no longer access to content. You will be redirected to the previous version of the interface.

Steps	Action
	
3	<p>Choose the desired price points and fill your product information:</p>  <p>Note: URL Settings will be pre-filled if you have already specified them in your site configuration.</p>

Geographies, payment methods, prices

Description

HiPay Mobile is designed to ease the pricing of your products in multiple geographies. When you set up a product on the HiPay Mobile platform, you choose the payment methods you want and set the prices in each country.

The end user in any given country will automatically be presented (using

IP-based geolocation) with those payment methods at the prices you have selected.

PRICE POINTS

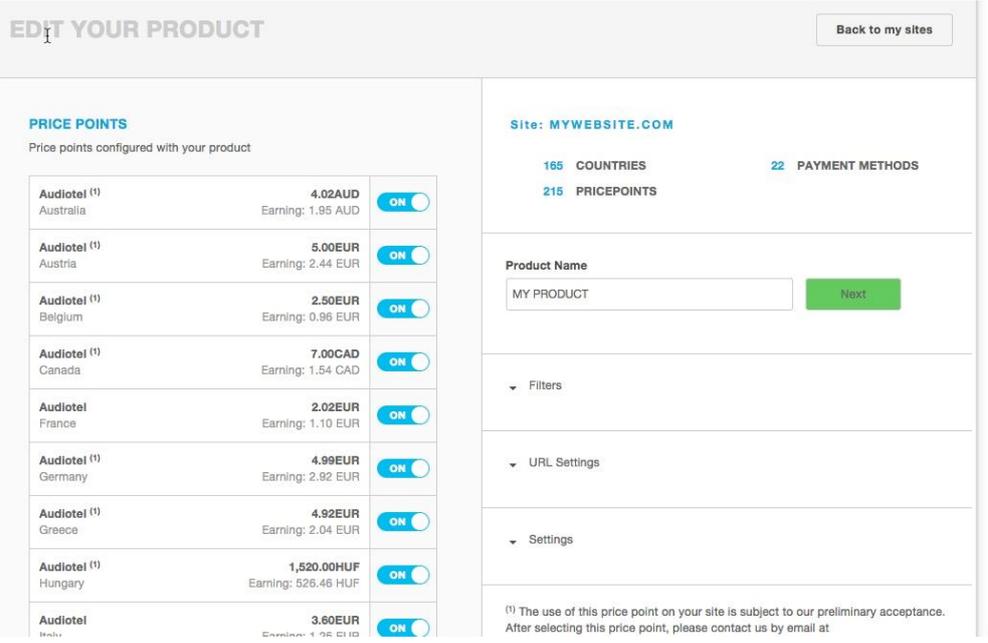
HiPay has selected for you the best price points in each country

Audiotel (1) Australia	4.02AUD Earning: 1.95 AUD	<input checked="" type="checkbox"/> ON
Audiotel (1) Austria	2.00EUR Earning: 0.81 EUR	<input type="checkbox"/> OFF
Audiotel Austria	3.63EUR Earning: 1.32 EUR	<input type="checkbox"/> OFF
Audiotel (1) Austria	4.00EUR Earning: 1.93 EUR	<input type="checkbox"/> OFF
Audiotel (1) Austria	5.00EUR Earning: 2.44 EUR	<input checked="" type="checkbox"/> ON
Audiotel (1) Belgium	2.50EUR Earning: 0.96 EUR	<input checked="" type="checkbox"/> ON
Audiotel (1) Canada	3.00CAD Earning: 0.66 CAD	<input type="checkbox"/> OFF
Audiotel (1) Canada	5.00CAD Earning: 0.90 CAD	<input type="checkbox"/> OFF
Audiotel (1)	7.00CAD	<input checked="" type="checkbox"/> ON

Edit a product

Procedure To edit products on HiPay Mobile merchant back office, proceed as follow:

Steps	Action
1	From the "Sites & Products" screen, click on your site name and then on "Edit product" at the right of your product.

Steps	Action
	
2	<p>Select the desired payment methods and price-points in the list on your left, change product name, filter price points or change URL Settings.</p> 
3	Click "Next".

Note



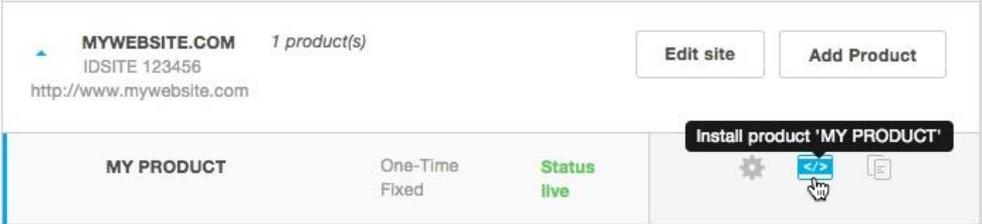
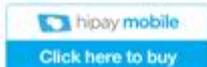
As explained on the website, some payment methods/geographies may only be available on request after our Customer Support team confirms that your service complies with the relevant Terms of Use. After selecting this price point, please contact us by email at contact.mobile@hipay.com so that we can activate it on your site.

Install your product

Procedure

To obtain the html code to install your product, proceed as follow:

Steps	Action
1	From the "Sites & Products" screen, click on your site name and then on "Install product" at the right of your product.

Steps	Action
	
2	<p>Choose between</p> <ul style="list-style-type: none"> • The Checkout script URL if you want to call directly the payment page. • The iframe script if you want to show the HiPay Mobile payment script in an internal iframe in your page. • The ready-made html code for a payment button (<i>Checkout button</i>) that pops-up a modal box. <p>CHECKOUT SCRIPT URL</p> <pre>https://payment.allopass.com/buy/buy.apu?ids=123456&idd=123456</pre> <p>IFRAME SCRIPT FORMAT</p> <pre><!-- Begin Allopass Checkout Code --> <iframe width="550" height="480" frameborder="0" marginheight="0" marginwidth="0" scrolling="no" src="https://payment.allopass.com/buy/buy.apu?ids=123456&idd=123456"> </iframe> <!-- Begin Allopass Checkout Code --></pre> <p>CHECKOUT BUTTON</p> <pre><!-- Begin Allopass Checkout Button Code --> <script type="text/javascript" src="https://payment.allopass.com/buy/checkout.apu? ids=123456&idd=123456&lang=en"></script> <noscript> </pre> 

Payment parameters

The payment URL accepts the following GET parameters

Status	Parameter	Description	Example
mandatory	ids	Your site ID as set up in your HiPay Mobile merchant account	12345

Status	Parameter	Description	Example
mandatory	idd	Your product ID as set up in your HiPay Mobile merchant account	67890
optional	data	Custom merchant data.	MyClientId
optional	merchant_transaction_id	The transaction ID used by the merchant.	IN1237123
optional	country	ISO country code so that you can set the iframe to a specific country (ignoring geolocation).	FR
optional	carousel	Can be set to row or col depending on whether you want to show the list of payment methods in rows or in columns. Default is row.	row
optional	forward_target	Window target for the forward to the product page at the end of the transaction. Can be set to parent or current	parent
optional	bundle_purchase	Hide the drop-down menu to buy bundle of codes, if 0 the script will always let the user buy <i>only</i> one code at a time.	0
optional	access_form	Hide the validate code form in the HiPay Mobile payment window. If used, you must create your own validate code form in your site. Refer to Method " <i>POST onetime/validate-codes</i> "	0
optional	button_url	You can enter your own image for your payment button, only specifies the complete URL to the image in this field.	http://www.mysite.com/mypaymentbutton.png

Note



HiPay Mobile handles availability of payment methods in the end-user's country of origin (IP geolocation) and provides an integrated UI accordingly.

Full UI integration

Overview

Introduction	The fully integrated UI approach is based on access code redemption and currently supports only SMS and Home phone billing.
Features	<ul style="list-style-type: none">• Full control over the UI (no iframe)• Moves the purchase experience away from the browser (e.g. in-game payments)
Prerequisites	<ul style="list-style-type: none">• Server-side coding with ability to make GET and POST http calls (for example, PHP with curl extension)• Available for SMS and Home phone payment methods only

Getting started

Introduction	The set-up for this integration is the same as for the static iframe integration.
Procedure	Namely, you need to: <ul style="list-style-type: none">• open an HiPay Mobile merchant account and• create your products.
Reference	Please refer to the section <i>Static payment iframe</i> for detailed information about these items.

Building the purchase experience

Introduction	The end-user is presented with a purchase page containing the following information: <ul style="list-style-type: none">• Product description and price• Phone billing instructions (SMS and/or Home phone). An <i>Access Code</i> is provided offline by HiPay Mobile on successful purchase• A text field for Access Code redemption
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Below are the steps to achieving this full integration:

Retrieve the billing information applicable to the end-user

Question	How may I bill my end-user, based on IP geolocation and based on my target price?
Method used	<p>As SMS and Home phone billing are based on static price points, this is done using the <i>onetime/pricing</i> API method.</p> <ul style="list-style-type: none">This API outputs the list of prices available to bill the end-user. It is up to you to make an automatic price point selection. <p>This usually requires that the website operates a database of products with relevant pricing information.</p> <ul style="list-style-type: none">The API also outputs the end-user instructions, in compliance with requirements of local authorities, in each of the markets that we cover.
Recommendation	<p>For compliance reasons, it is mandatory that you display these end-user instructions on your payment page.</p> <p>Failure to do so may result in service interruption. These instructions may be updated without prior notice.</p>
Conclusion	These instructions allow the end-user to buy an Access Code offline over the phone, making this integration especially suitable for in-game purchases.

Access Code redemption

Description	End-users need to be able to redeem their Access Code on your website.
Process	<p>The HiPay Mobile API enables you to validate Access Codes with the <i>onetime/validate-codes</i> method.</p> <p>This API method outputs the status of the code.</p> <p>When the Access Code is validated, the merchant account is credited and the product can be safely delivered to the end-user.</p>
Reference	To learn more about these API methods, please refer to the API Basic implementation section.

Process Payments received

Overview

Introduction The HiPay Mobile platform offers 3 different ways of processing payments received.

Unlock your protected content

Features

- Upon payment success, users are redirected to a JavaScript-protected URL that they were previously unable to access.
- Suitable for content monetization only.

Benefits

- No coding involved. Fast and easy.
- Casual protection.
- Access to content is granted instantaneously after purchase.

Procedure To obtain securisation html code, proceed as follow:

Steps	Action
1	<p>You define the Product Access URL when you create a Product in your HiPay Mobile account.</p> <p>This is where your protected content is located.</p> <p><i>Please refer to the URL Settings paragraph in the "Getting started, a step-by-step walkthrough" section.</i></p>
2	<p>To limit the access of this page to paying users, add some JavaScript to your page and to any linked page that needs to be protected.</p>
3	<p>From the "Sites & Products" screen, click on your site name and then on "Install product" at the right of your product.</p> 
5	<p>The script that you need to use is located in <i>Step 2: Securing your product page</i>.</p> <p>Copy and paste it to your html page(s) right after the <head> tag.</p>

Steps	Action
	<p>SECURE SCRIPT FORMAT</p> <pre> <noscript> <meta http-equiv="Refresh" content="0;url=https://payment.allopass.com/error.apu? ids=123456&id=987654"> </noscript> <script type="text/javascript" src="https://payment.allopass.com/api/secure.apu? </pre>

Call HiPay Mobile from the Product Access URL to verify transactions

Features	<ul style="list-style-type: none"> Paying users are redirected to the Access URL where you call HiPay Mobile to verify the transaction
Benefits	<ul style="list-style-type: none"> Payment is credited synchronously. You can deliver your product/service instantaneously Robust multi-purpose integration
Step-by-step walkthrough	<p>After a successful purchase, the end-user is redirected to a <i>Product Access URL</i> confirming proper payment.</p>

HiPay Mobile passes to that page some GET parameters described as follows:

Parameter	Description
data	Custom data that was initially passed to the <i>payment iframe</i> .
code	HiPay Mobile access code.
trxid	HiPay Mobile ID of the transaction
merchant_transaction_id	Optional merchant transaction ID initially passed to the <i>payment iframe</i> .
codes	same as code [<i>deprecated and only intended for backward compatibility</i>]
DATAS	same as data [<i>deprecated and only intended for backward compatibility</i>]

With this information you can call the transaction API method and obtain detailed information about the transaction, please refer to the HiPay Mobile - API Reference documentation for more information.

Receive a call from HiPay Mobile to your Notification URL

Features	<ul style="list-style-type: none">• HiPay Mobile sends a call back to a Notification URL set-up by the merchant to process transaction details
Benefits	<ul style="list-style-type: none">• Payment is credited asynchronously. You can deliver your product/service in the background without disrupting the user experience.• Robust multi-purpose integration
Step-by-step walkthrough	<p>If your products are managed on the HiPay Mobile merchant account, the notification URL is defined when you create a Product in the HiPay Mobile merchant account. Please refer to the <i>Payment URLs</i> paragraph in the <i>Static payment iframe</i> section.</p> <p>After a successful purchase, HiPay Mobile immediately calls your Notification URL in the background with comprehensive information about the payment passed through GET parameters.</p> <p>A signature verification mechanism ensures that the notification comes from the HiPay Mobile server. The list of parameters and the signature validation process are documented in the Signature Verification section.</p>

Response

The following table lists the parameters returned to the merchant URL.

Parameter	Description	Example
action	Describes the type of event for which we notify.	payment-confirm Please refer to actions table below.
test	Allows merchant to identify test transactions.	<i>true</i> or <i>false</i>
transaction_id	Unique ID for the HiPay Mobile transaction.	0c92578d-3143-4bd8-aeae-72f2455e2499
status	Status of the transaction.	0 Please refer to status table below.
status_description	Description of the status of the transaction.	Success
access_type	Product type	onetime

Parameter	Description	Example
date	Transaction date	2010-12-15T16:09:57+00:00
code	HiPay Mobile code used	XXXXXXXXX
pricepoint_id	Pricepoint Id used	206
type	Payment method	premium-sms
data	Custom merchant data provided when making payment request.	Widget592
merchant_transaction_id	The transaction ID used by the merchant.	IN1237123
amount	Amount of the transaction. The <i>currency</i> is determined by the price point identifier.	10.00
paid	Amount actually paid by the customer in <i>currency</i> .	10.00
currency	Local currency for the transaction.	EUR
payout_amount	Amount of the merchant payout in payout currency	6.18
payout_currency	Payout currency for the transaction	EUR
reference_currency	Base currency (EUR is default).	USD
reference_amount	Amount of the transaction in base currency	14.79
reference_paid	Amount actually paid by the customer in base currency	14.79
reference_payout	Amount of the merchant payout in base currency	9.14
customer_country	Country code of the customer. This two-letter code complies with ISO-3166.	FR
site_id	Identifier of the merchant site.	123456

Parameter	Description	Example
product_name	The name of the product where the code was used	My New Product
carrier	Optional: Carrier information if available	Orange
msisdn	Optional: MSISDN information if available	0612345678
code_creation_date	Optional: Code creation date if available.	2013-07-18T13:05:38+00:00
api_key	Merchant API key	cf3b9a6b7b309c06aa53f5527c96e67
api_ts	UNIX Timestamp (GMT)	1258691527
api_hash	Hash function to use for signing: <i>md5</i> or <i>sha1</i> . (SHA-1 is default)	sha1 md5
api_sig	Signature	fb1bab50fd2c3751dab07b35...

Example

URL notification Example

```
http://your-domain.com/hipay_notification.php?action=payment-confirm&test=true&transaction_id=2ae1116c-57b2-4707-9d23-7aba0211050b&status=0&status_description=success&access_type=onetime-dynamic&date=2010-12-15T16%3A09%3A57%2B00%3A00&code=XXXXXX&pricepoint_id=206&data=&merchant_transaction_id=&amount=3&paid=0&currency=EUR&payout_amount=0&payout_currency=EUR&reference_currency=EUR&reference_amount=3&reference_paid=0&reference_payout=0&customer_country=IL&site_id=127042&api_key=9696ba35ebb3dc6c11c964c269f262a6&api_ts=1292429411&api_hash=md5&api_sig=8217c0e1bb35eb6a51df5a5b150b1d0f
```

Action

Code	Description
payment-confirm	Success transaction
payment-renewal	Subscription success renewal
payment-error	Payment error
payment-chargeback	Chargeback on payment
subscription-cancellation	Subscription cancellation

Status codes

Code	Description	Example
------	-------------	---------

0	Success	Payment accepted
1	Error	Insufficient funds
5	Charged back transaction	Chargebacked

API Basic implementation

Overview

Introduction HiPay Mobile provides access to key features of its payment engine through an API or Web Service.

What is an API?

Description An API (Application Programming Interface) is a library of functions or procedures to develop applications.

Who may use this API?

Description This API is opened to all merchants who wish to dynamically integrate the HiPay Mobile payment solution in their sites or applications.

This document is specifically aimed to developers.

Knowledge and skills

The HiPay Mobile API requires that the user is familiar with the following:

- Basic understanding of Web Services (<http://www.w3schools.com/webservices>),
- Manipulating an XML document (<http://www.w3schools.com/xml>)
- Mastery of a programming language allowing the use of Web Services.

Note



To learn more about these API methods, or for an advanced implementation, please refer to the **HiPay Mobile API Developer Reference Manual**.

Method "GET onetime/pricing"

Description Returns the list of static price points available for a product or a website in XML format.

Goal of this method This method is used to obtain the list of price points supported by the HiPay Mobile API, each price point being set for a payment method, a country and a user price.
It returns a list of supported countries and detailed information for each available price point.

URL
<https://payment.allopass.com/api/onetime/pricing.apu>

HTTP Method GET

Parameters

Status	Parameter	Type	Description
mandatory	site_id	integer	Identifier of the merchant site.
optional	product_id	integer	Product identifier (for one-shot micropayment).
optional	country	string	Filters the list of price points by country (expecting ISO-3166-compliant two-letter country codes).
optional	type	string[]	Filters the list of price points by payment type. For a list of payment types, see Appendix 1 "Payment types"
optional	customer_ip	inet	If the customer IP address is specified, the country of the customer is identified via geolocation.
optional	only4ip	boolean	Geolocates the <i>customer_ip</i> and filters the list of price points for the identified country.
optional	reference_currency	string	Base currency (EUR is default).

Example request

Request URL Example

```
https://payment.allopass.com/api/onetime/pricing.apu?site_id=123456&product_id=654321
```

Response

Parameter	Description	Example
creation_date	Date of server reply (GMT).	2009-08-30T12:04:21+00:00
customer_ip	If the customer IP address is specified, the country of the customer is identified via geolocation.	83.167.62.196
customer_country	Country code of the customer. The country is automatically detected from the IP address of the customer (if provided). This two-letter code complies with ISO-3166.	US
countries	List of supported countries.	
markets	List of price points available per country.	

Sample response

Code Example

```
<?xml version="1.0" encoding="utf-8" ?>
<response xmlns="https://api.allopass.com/rest"code="0" message="OK">
  <creation_date timestamp="1251633861" date="2009-08-30T12:04:21+00:00" />
  <customer_ip>83.167.62.196</customer_ip>
  <customer_country>FR</customer_country>
  <countries>
    <region name="Europe">
      <country code="FR" name="France"/>
    </region>
    <region name="NorthAmerica">
      <country code="US" name="UnitedStates"/>
    </region>
  </countries>
  <markets>
    <market country_code="FR" country="France">
      <pricepoint id="2"code="FR" type="premium-calling">
        <price currency="EUR" amount="1.80"
exchange="1.000000" reference_currency="EUR" reference_amount="1.80"/>
        <buy_url>
          <![CDATA[https://payment.allopass.com/acte/audiotel/purchase.apu?ids=123456&idd=654321]]>
        </buy_url>
        <phone_numbers>
          <phone_number value="08 99 19 01 13">
            <description>
              <![CDATA[
                Pour recevoir votre code, appelez le :<br />
                <span class="phone-number">08 99 19 01 13</span>
              ]]>
            </description>
          </phone_number>
        </phone_numbers>
        <description>
          <![CDATA[
            La communication vous sera facturée :<br /> 1,34€/appel + 0,34€/min.
            depuis
            une ligne fixe.<br />Obtention du code en < 1,30 min. - coût : 1,80€
          ]]>
        </description>
      </pricepoint>
    </market>
    <market country_code="US" country="UnitedStates">
      <pricepoint id="166" code="US" type="premium-sms">
        <price currency="USD" amount="3.99"
exchange="1.000000" reference_currency="USD" reference_amount="3.99"/>
      </pricepoint>
    </market>
  </markets>
</response>
```

```

exchange="1.4788000" reference_currency="EUR"reference_amount="2.70"/>
<buy_url>
<![CDATA[https://payment.allopass.com/acte/sms/purchase.apu?ids=123456&idd=65432
1]]>
</buy_url>
<keywords>
<keyword name="ALL" shortcode="44536" operators="*"number_billed_messages="1">
<description>
<![CDATA[
    To receive an access code<br />on your mobile phone, send<br />
<span class="keyword">ALL</span> to <span class="shortcode">44536</span>
]]>
</description>
</keyword>
</keywords>
<description>
<![CDATA[
    $ 3.99/SMS - Standard text messaging rates apply<br />
    Info at 1-877-524-8532
    ]]>
</description>
</pricepoint>
</market>
</markets>
</response>

```

Structure of a “pricepoint”

Parameter	Description
price	End-user price <i>currency</i> : local currency in which the end-user is billed <i>amount</i> : amount of the transaction <i>exchange</i> : exchange rate of the day <i>reference_currency</i> : base currency (euro is default) <i>reference_amount</i> : amount of the transaction in base currency
buy_url	Buy URL for the customer (Not Applicable when not utilizing a product_id along with the following payment methods: MPME, Mikro-Odeme and SMS US WO)
description	Pricepoint description

Method “Post onetime/validate-codes”

Description	Validate access codes.
Goal of this method	This method is used to validate “manually” the HiPay Mobile codes generated after a payment. The codes will be validated and destroyed after using this method. You will receive an XML response with the details of the transaction, you have then, to treat this response and redirect the user to the page/content he paid for.
URL	https://payment.allopass.com/api/onetime/validate-codes.apu

HTTP Method POST

Parameters

Status	Parameter	Type	Description
mandatory	site_id	integer	Identifier of the merchant site.
mandatory	product_id	integer	Identifier of a product.
mandatory	code	string[]	Access code(s)
optional	merchant_transaction_id	string	Transaction ID used by the merchant.
optional	data	string	Custom data.
optional	ap_ca	string	Partner code.
optional	ap_ca_idc	integer[]	Partner ID.
optional	ap_ca_mnt	string[]	Partner revenue share (in %).
optional	ap_ca_map	integer[]	Affiliate program ID.
optional	customer_ip	inet	Customer IP address.
optional	reference_currency	string	Base currency (EUR is default).

Example request

Code Example

```
<form action="https://payment.allopass.com/api/onetime/validate-codes.apu"
method="post">
  <input type="hidden" value="xxxxxx" name="site_id">
  <input type="hidden" value="yyyyyy" name="product_id">
  <input type="text" name="code[]" value="zzzzzzz">
  <input type="text" name="merchant_transaction_id" value="MyTransactionId">
  <input type="text" name="data" value="MyPersonalData">
  <input type="submit" value="send">
</form>
```

Response

Parameter	Description	Example
status	Status code.	0
status_description	Status description.	Success

Parameter	Description	Example
access_type	Access type of the product.	Onetime
transaction_id	Identifier of the transaction.	0c92578d-3143-4bd8-aeae-72f2455e2499
price	Information about the transaction price. The <i>reference_amount</i> attribute is the price of the transaction in the currency and exchange rate specified in the <i>currency</i> and <i>exchange</i> attributes.	
paid	Amount actually paid by the customer in <i>currency</i> . The <i>reference_amount</i> attribute is the price of the transaction in the currency and exchange rate specified in the <i>currency</i> and <i>exchange</i> attributes.	
validation_date	Date the code(s) was/were validated.	2009-06-11T08:23:10+00:00
product_name	Name of the product.	MY PRODUCT
website	Information on the website on which the product is valid.	
customer_ip	Customer IP address.	83.167.62.196
customer_country	Country code of the customer. This two-letter code complies with ISO-3166.	FR
expected_number_of_codes	Number of codes required to access the product (from 1 to 5).	1
codes	List of access codes for this transaction.	
merchant_transaction_id	The transaction ID used by the merchant.	
data	Custom merchant data.	
affiliate	Partner code via an affiliate program.	
partners	List of partners defined by the merchant.	

Sample response

Code Example

```
<?xml version="1.0" encoding="utf-8" ?>
<response xmlns="https://api.allopass.com/rest"code="0" message="OK">
<status>0</status>
<status_description>success</status_description>
<access_type>onetime</access_type>
<transaction_id>0c92578d-3143-4bd8-aeae-72f2455e2499</transaction_id>
<price currency="EUR" amount="3.60"
exchange="1.0000000" reference_currency="EUR" reference_amount="3.60" />
<paid currency="EUR" amount="3.60"
exchange="1.0000000" reference_currency="USD" reference_amount="3.60" />
<validation_date>2009-06-11T08:23:10+00:00</validation_date>
<product_name><![CDATA[SPARE CHANGE TOPUP]]></product_name>
<website id="123456" name="MY-WEBSITE.COM" url="http://my-website.com" />
<customer_ip>83.167.62.196</customer_ip>
<customer_country>FR</customer_country>
<expected_number_of_codes>2</expected_number_of_codes>
<codes>
<code value="5MHE5939">
<pricepoint id="2"code="FR"type="premium-calling"/>
<price currency="EUR"amount="1.80"
exchange="1.0000000" reference_currency="EUR"reference_amount="1.80"/>
<paid currency="EUR"amount="1.80"
exchange="1.0000000" reference_currency="EUR"reference_amount="1.80"/>
<payout currency="EUR"amount="1.00"
exchange="1.0000000"reference_currency="EUR" reference_amount="1.00"/>
</code>
<code value="6Q5GF542">
<pricepoint id="2"code="FR"type="premium-calling"/>
<price currency="EUR"amount="1.80"
exchange="1.0000000" reference_currency="EUR"reference_amount="1.80"/>
<paid currency="EUR"amount="1.80"
exchange="1.0000000" reference_currency="EUR"reference_amount="1.80"/>
<payout currency="EUR"amount="1.00"
exchange="1.0000000"reference_currency="EUR" reference_amount="1.00"/>
</code>
</codes>
<merchant_transaction_id><![CDATA[20090611-69784535]]></merchant_transaction_id>
<data><![CDATA[user_id=1981&login=username@host.com]]></data>
<affiliate>X058G469879E5</affiliate>
<partners>
<partner id="12397654" share="10" map="" />
</partners>
</response>
```

Status codes

Code	Description	Example
0	Success	Access code validated.
1	Failed	Validation failed.

Signature verification

Check the signature of a notification

Description

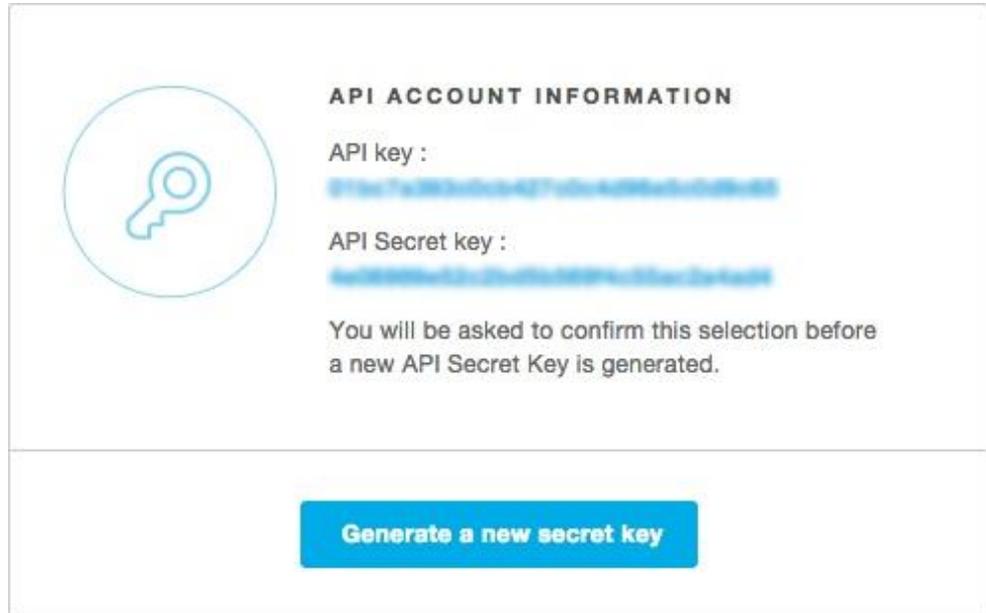
A unique signature is sent (api_sig) each time that HiPay Mobile contacts a merchant page.

Verification of the signature

To verify this signature, you will need your API Secret Key.

Find the Secret Key

You will find this key in your HiPay Mobile back office under the « Toolbox » category.



Signature verification example

Example in PHP

```
<?php
$parameters = $_GET;

$signature = $parameters['api_sig'];
unset($parameters['api_sig']);
ksort($parameters);

$secretKey = ''; // fill here with your personal secret key
$string2compute = '';

foreach ($parameters as $name => $value) {
    $string2compute .= $name . $value;
}

// true if OK, false if not
// if you are using md5 instead of sha1 please replace
if (sha1($string2compute . $secretKey) == $signature) {
    $code = 0;
    $message = 'OK';
}
else {
    $code = 1;
    $message = 'KO';
}

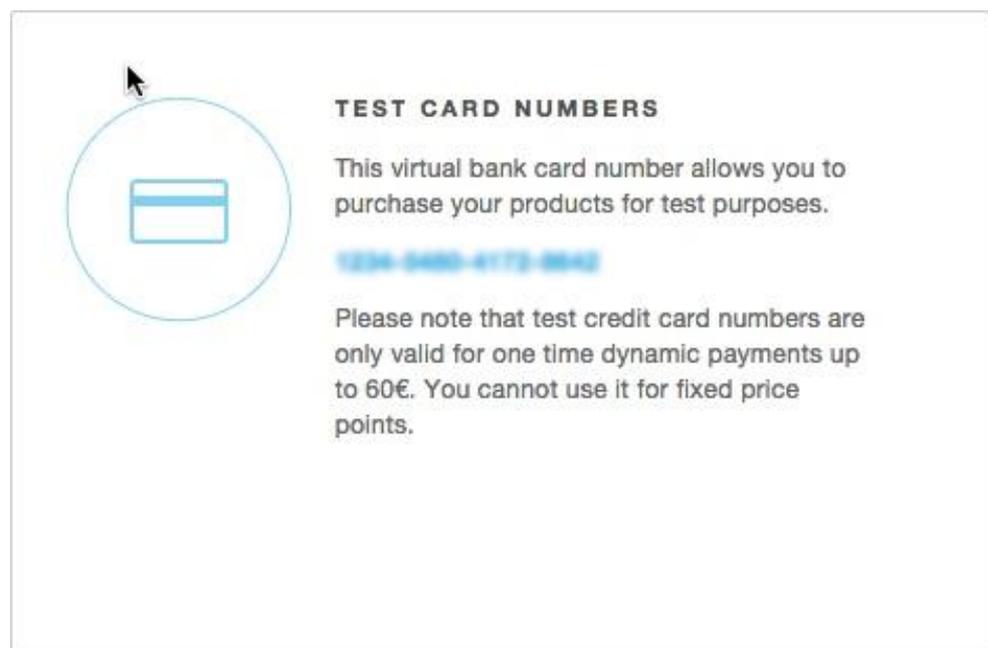
header('Content-Type: text/xml; charset=UTF-8');

echo '<?xml version="1.0" encoding="UTF-8" ?>';
?>
<response status="1">
  <code><?php echo $code; ?></code>
  <message><?php echo $message; ?></message>
</response>
```

Testing

Virtual bank card (only for One-Time Dynamic products)

Description HiPay Mobile lets you use a virtual bank card to test your payments; you will find it in your HiPay Mobile back office under the « Toolbox » category.



This virtual bank card number allows you to purchase YOUR products for test purposes.

Note **Test credit card number is only valid for discrete price points (payments up to 60€). You cannot use it for fixed price points.**

Test codes

Description To facilitate the testing of your integration, for each product set up on the HiPay Mobile merchant account, you can specify a test code that will always lead to an unbilled, successful transaction.

Code security **It is your responsibility to use strong enough test codes that won't be easily guessed or brute-forced by the end-user.**

Note The **Test codes** don't send any notification to your notification URL, if you want to test the notifications, please test them with **Free Codes**.



Free codes (only for One-Time Fixed products)

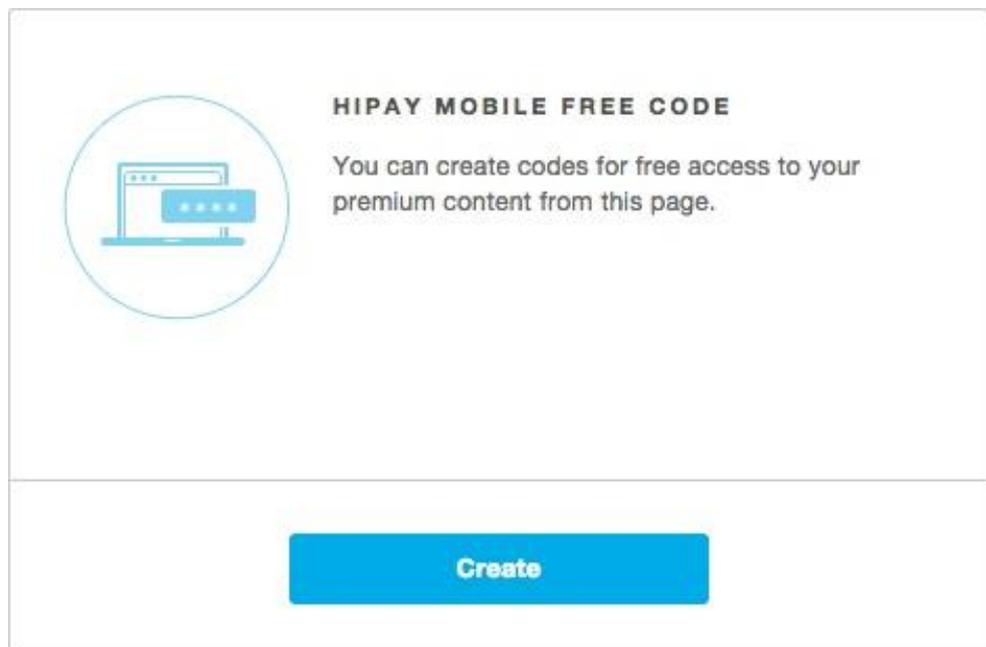
Description

Free codes are more sophisticated than test codes as they are meant to behave more like real codes.

Their validity can be adjusted by duration or number of uses, so they can be used for customer support as well.

Free code

You can generate free codes on your HiPay Mobile back office under the « Toolbox » category.



Note



Please note that these free codes are tied to specific product IDs. When using the API to generate transactions that are not associated with product IDs, you need to select "*Generic Product*" in the drop-down list.

More questions?

Contact our Merchant support at: contact.mobile@hipay.com or visit our Support center at <http://help.hipay.com/mobile>.

