

## INTEGRATION OF VANILLA PAY INTO YOUR WEBSITE

VANILLA PAY platform version: 2.0

Requires library: phpseclib for encryption / decryption or a library containing the TripleDES.

First of all, you must already be registered with the VANILLA PAY platform ( <https://pro.ariarynet.com/> ) and have the following parameters:

- your private security key, which must be kept carefully.
- your public security key, which must be kept safe.
- your client\_id and your client\_secret (to be created only once on the platform when registering your website).



The screenshot shows the Vanilla Pay website interface. At the top, there's a navigation bar with the Vanilla Pay logo on the left and a login section on the right containing input fields for 'Nom d'utilisateur' and 'Mot de passe', and a 'Connexion' button. Below the navigation bar, the main content area is divided into two sections. On the left, there's a circular diagram with the Vanilla Pay logo in the center, surrounded by various business categories: e-commerce, e-business, e-tourisme, e-salaire, e-administration, e-GOV, e-écolage, e-agriculture, and e-énergie. Above this diagram, it says 'Recevez les paiements en Ariary de vos clients 24h/24 et 7j/7'. On the right, there's a section titled 'Inscription pour les entreprises' with a link 'Créer un compte personnel'. Below this, there's a registration form for 'Etape 1 / 3' titled 'Informations sur le compte'. The form includes a dropdown menu for 'Type de compte' (currently set to 'Commercial'), and input fields for 'Nom d'utilisateur', 'Adresse e-mail', and 'Mot de passe'.

Figure 1: Registration page for a pro account

The screenshot shows the Vanilla Pay account interface. The left sidebar contains the user profile (Pro1, Technicien) and account details (Nom: Collaborateur). The main content area has three tabs: 'Société', 'Mes clés d'accès' (selected), and 'Mes sites'. Under 'Mes clés d'accès', there is a green button 'Générer nouveaux clés d'accès'. Below it, the 'Vos clés d'accès:' section displays the Client\_ID and Client\_secret, both highlighted in red. A red warning box at the bottom states: 'Ces informations sont extrêmement importantes, veuillez bien les noter.'

https://pro.ariarynet.com/compte/

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Récapitulatif Mon compte Bordereaux Tutoriel Déconnexion

Société Mes clés d'accès Mes sites

Générer nouveaux clés d'accès

Vos clés d'accès:

- Client\_ID: 208\_5pf1237hq0co00440k3oco0kwcgckgho0wci0sokchg0004g044
- Client\_secret: 1fzkywc9grm00w440ow0c0g004c4g4gogwkw08cow0k0k0sg Enable

Ces informations sont extrêmement importantes, veuillez bien les noter.

A propos du compte

Nom Collaborateur

Figure 2: Access keys

The screenshot shows the Vanilla Pay account interface with the 'Mes sites' tab selected. The left sidebar is identical to the previous figure. The main content area has three tabs: 'Société', 'Mes clés d'accès', and 'Mes sites' (selected). A link 'Enregistrer mon site' is visible. Below it, the 'Mon site' section contains various fields for site information, each with a red highlight: 'Lien vers le site' (https://monsite.com), 'Lien de retour' (https://monsite.com/paiement\_retour), 'Lien en cas de notification du site' (https://monsite.com/notif), 'Lien en cas d'erreur' (https://monsite.com/echec), 'Adresse IP' (145.125.1.215), 'E-mail du site' (monsite@mail.com), 'Clé privée' (190405024283fa76c2ed121ff4d04c3a8b89783ecf0e158eb), and 'Clé publique' (f913a480f2547e9d9bef816c079c14e3a9b3230b3ed82bf998).

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Récapitulatif Mon compte Bordereaux Tutoriel Déconnexion

Société Mes clés d'accès Mes sites

Enregistrer mon site

Mon site

Lien vers le site

https://monsite.com

Lien de retour

https://monsite.com/paiement\_retour

Lien en cas de notification du site

https://monsite.com/notif

Lien en cas d'erreur

https://monsite.com/echec

Adresse IP

145.125.1.215

E-mail du site

monsite@mail.com

Clé privée

190405024283fa76c2ed121ff4d04c3a8b89783ecf0e158eb

Clé publique

f913a480f2547e9d9bef816c079c14e3a9b3230b3ed82bf998

A propos du compte

Nom Collaborateur

Prénom Ariary

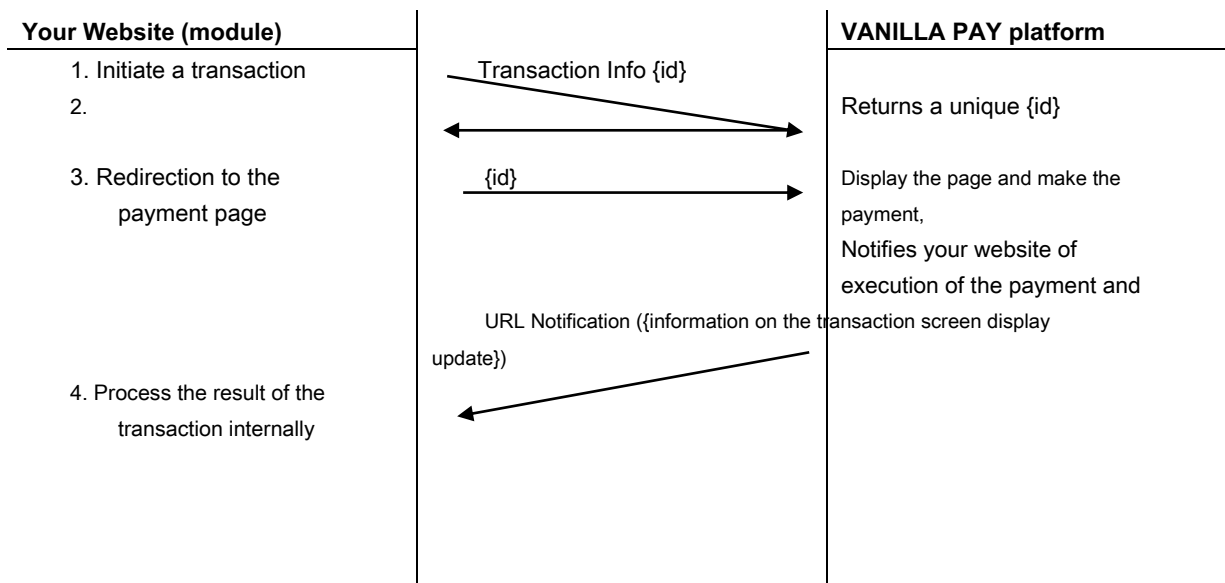
Adresse e-mail pro@mail.com

Numero de téléphone +261351185678

Autres utilisateurs Aucun autre utilisateur n'utilise ce compte

Figure 3: Site information and keys

A payment session looks like this:



These webservice calls are made automatically between your website and the VANILLA PAY platform and are carried out transparently vis-à-vis the cyber-buyer customer.

All these exchanges are encrypted. At each webservice call, your website must encrypt the parameters with your public key. Each response sent by the VANILLA PAY platform must be decrypted with your private key.

The decryption uses the functions of the phpseclib library.

For an online payment session, access must be protected by a token.

### Access request (token)

The token or token will allow your website to access the functionalities of the platform in a secure manner.

To get the token, the site must send a "GET" request to the url

<https://pro.ariarynet.com/oauth/v2/token>

In this request, the following parameters must be sent:

- 'client\_id' and 'client\_secret'. The values are retrieved from the platform.
- 'grant\_type': 'client\_credentials' (as is)

In return, the request sends the token. Ex: " **MzJmNDc3M2VjMmQzN** For the rest of this document.

This token is dynamic therefore has a limited lifespan on the platform, just to make an online payment. This request must be launched for each new payment.

## Payment

All communications between the platform and your website will be encrypted. After registration (when opening your account on VANILLA PAY), each customer receives two keys: public key (to encrypt) and private key (to decrypt).

To access a payment functionality, you must send a "POST" request which will contain two parameters:

- 'site\_url': the link to the site provided during registration (eg "http://www.moravidy.com"), not encrypted.
- 'params': which contains all the parameters required for the requested function. Its content must first be encoded in json and then encrypted with the public key.

The identification token must be put in the header of the request like this:

**Authorization: Bearer MzJmNDc3M2VjMmQzN**

## Initialization of payment

Before making a payment, your website should display a summary page. This page displays to the online buyer a complete summary of what he will pay you, and a "Pay with VANILLA PAY" button.

To initiate a payment on the platform, you must send a "POST" request to the url

<https://pro.ariarynet.com/api/paiements>

With the following parameters:

- 'unitemonetaire' (ex: "Ar")
- 'ipaddress': the IP address of the cyber-buyer client who will make the online payment 'idpanier': the identifier of the item to be paid
- 'amount': the total amount to pay
- 'name': the name of the cyber buyer customer
- 'email': the email address of the cyberbuyer customer
- 'reference': the payment reference for your internal management

At the end of this request, your website will receive the payment identifier ("id") which will still have to be decrypted with your private key.

This "payment initialization" request must be sent before the display of the summary page.

In this page, the button "Pay with VANILLA PAY" redirects the cyberbuyer customer to the online payment platform.

The payment url is

<https://moncompte.ariarynet.com/paiement/ Danemarkid> (for payments by Vanilla Pay account)

<https://moncompte.ariarynet.com/payer/ Danemarkid> (for direct mobile money payments)

You must replace the "{id}" by the identifier of the decrypted payment (in clear)

### Payment result

When the payment has been made by the online buyer customer, the VANILLA PAY platform will signal your website via the notification url provided during your registration that the transaction has been completed.

The result of the payment, sent by the VANILLA PAY platform, is an object encoded in json. This object is still encrypted. As a reminder, you must decrypt with your private key.

It contains as an attribute:

- idpanier
- amount
- ref\_int (the reference you provided)
- result ('success' if the transaction was successful)
- name (that of the buyer if he provided it)
- dated
- ref\_arn (payment reference at Vanilla Pay)

## Modules

If your project is in **Symfony**, **CodeIgniter**, **WooCommerce**, **Odoo**, we have already developed modules for you available in: <https://drive.google.com/drive/folders/1U0tT8DQFvYkzGKXZlR9BjEgCnHwL6e7>. Otherwise, you can develop alone or with our developers the module corresponding to your language.