



Payment module integration for Virtuemart 3

Contents

1. RELEASE NOTES.....	3
2. MODULE FEATURES.....	4
3. READ CAREFULLY BEFORE GOING ANY FURTHER.....	5
4. PREREQUISITES.....	6
5. INSTALLATION AND CONFIGURATION OF THE PAYMENT MODULE.....	7
5.1. Updating the module.....	7
5.2. Installing the payment module.....	7
5.3. Plugin activation.....	7
5.4. Adding a new payment method.....	8
5.5. Configuring standard payment.....	9
5.6. Configuring installment payment.....	11
6. SETTING UP THE INSTANT PAYMENT NOTIFICATION URL.....	15
6.1. Setting up the Instant Payment Notification.....	16
6.2. Setting up notifications in case of abandoned or canceled payments.....	17
6.3. Testing the Instant Payment Notification URL.....	18
7. PROCEEDING TO TEST PHASE.....	19
8. SHIFTING THE SHOP TO PRODUCTION MODE.....	21
9. OBTAINING HELP.....	22

1. RELEASE NOTES

Version	Date	Comments
2.2	8/19/2020	<p><u>New features</u></p> <ul style="list-style-type: none"> • Addition of Spanish translations. • Update of translations. • Addition of the “Signature algorithm” parameter for the HMAC-SHA-256. • Update of the message concerning the transition to production mode on the return page. • Buyer’s brand selection is displayed in order details.
2.1	2/13/2018	<p><u>New features:</u> Addition of installment payment.</p>
2.0.3	1/19/2017	<p>Improvement of translations. Removal of key format control (alphanumeric). <u>Bugfix:</u> A warning occurred on a successful payment relative to emptyCart() function.</p>
2.0.2	6/1/2016	German file language added
2.0.1	3/5/2015	<p><u>Bugfix:</u></p> <ul style="list-style-type: none"> • In Joomla 3, redirection to the payment page used to fail (<i>Fatal error: Class 'SystempayApi' not found in \plugins\vmpayment\Systempay\Systempay.php on line 155</i>). • The difference between the paid amount and the order amount does not exist anymore. The amount transmitted to the payment platform is now rounded-up, as at Virtuemart, to display the shopping cart amount. • The logo is now loaded in the right folder. • The user ID in Joomla is now sent to the payment gateway (vads_cust_id)
1.1	1/19/2015	<p><u>Bug fixes:</u> Correction of apostrophe management that used to generate an error with signature computation during the return to the shop.</p>
1.0	1/14/2015	Initial version.

2. MODULE FEATURES

- Immediate payment
- Payment in installments
- Compatibility with Virtuemart version 3.x
- Multi-language compatibility
- Multi-currency compatibility
- Custom 3D Secure that can be configured by client group depending on the order amount
- Automatic redirection to the shop once the payment is made
- Definition of a minimum/maximum amount for each payment type
- Management of the order status for accepted payments
- Management of the order status for declined payments
- Systematic registration of orders at the end of payment via a silent URL (Instant Payment Notification URL)

3. READ CAREFULLY BEFORE GOING ANY FURTHER

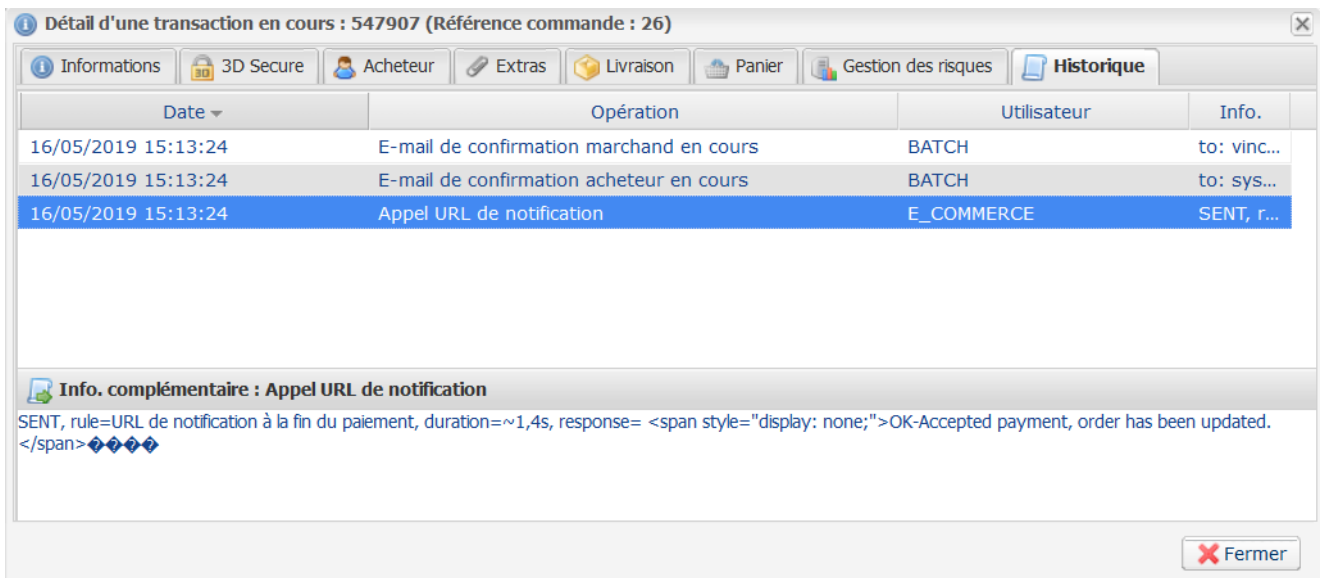
The most frequent error concerns the Instant Payment Notification URL. The Instant Payment Notification URL is the only way the Systempay gateway can notify you at the end of your payment. The chapter **Setting up the end of payment notification** must be read thoroughly and the provided instructions must be respected. It is essential to understand the difference between the Instant Payment Notification URL and the return URL which is called only if the buyer clicks on “Return to shop”.

Frequent errors:

- **Your Virtuemart shop is in maintenance mode**
- **Your Instant Payment Notification URL is protected by an .htaccess file**
- **You have blocked the IP addresses of the payment gateway**
- **You have not encoded the notification URL in the Merchant Back Office**

How to check that the Instant Payment Notification URL has been called:

Via the Merchant Back Office, display the payment details (double click), then go to the “**Event log**” tab.



Détail d'une transaction en cours : 547907 (Référence commande : 26)

Informations 3D Secure Acheteur Extras Livraison Panier Gestion des risques Historique

Date	Opération	Utilisateur	Info.
16/05/2019 15:13:24	E-mail de confirmation marchand en cours	BATCH	to: vinc...
16/05/2019 15:13:24	E-mail de confirmation acheteur en cours	BATCH	to: sys...
16/05/2019 15:13:24	Appel URL de notification	E_COMMERCE	SENT, r...

Info. complémentaire : Appel URL de notification

SENT, rule=URL de notification à la fin du paiement, duration=~1,4s, response= OK-Accepted payment, order has been updated.

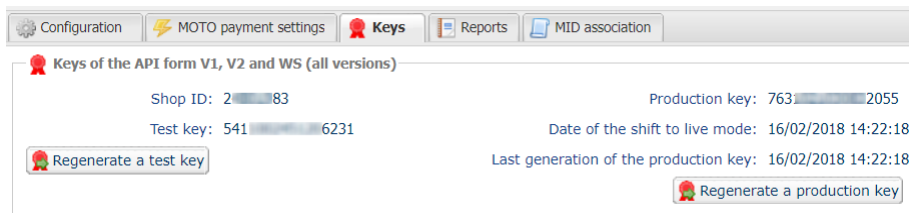
Fermer

4. PREREQUISITES

Before integrating the payment module, please make sure that you are in possession of the following elements:

- **Payment module file:** Systempay_Virtuemart_3.x_v2.2.x.zip
- **Your shop ID**
- **Test or production key**

The Shop ID and the keys are available in the Merchant Back Office (menu: **Settings > Shop > Keys**)



Reminder, your Merchant Back Office is available at this address:

<https://paiement.systempay.fr/vads-merchant/>

WARNING: All our payment modules are tested, starting from PHP version 5.3.

Therefore, all the previous PHP versions are no longer supported by our modules. If you have an earlier version, you must ask your hosting provider to install a more recent version on your server prior to contacting us.

Please note that the 5.3 version is no longer supported by PHP: <http://php.net/supported-versions.php>

5. INSTALLATION AND CONFIGURATION OF THE PAYMENT MODULE

5.1. Updating the module

To update the payment module, you must first delete its previous version.

WARNING: Make sure you save the parameters of your module before you uninstall it and save the production key that is no longer visible in the Systempay Back Office.

This module version offers this configuration: **Signature algorithm**, which was not present in some previous versions of our modules. By default, this field is set to **HMAC-SHA-256** and its value must be the same as in the Systempay Back Office (**Settings > Shop > Keys** tab). If the algorithm is different, the parameter must be changed via the Systempay Back Office.

To uninstall the previous module version, you have to:

1. Sign into your Virtuemart Back Office.
2. Go to **Extensions > Manage > Manage**.
3. Enter **systempay** in the search area.
4. Check the boxes for the following modules: **systempay**, **VM Payment - Systempay standard payment** and **VM Payment - Systempay payment in installments**
5. Click on the **Uninstall** button.

5.2. Installing the payment module

1. Sign in to the Joomla administration page.
2. Go to **Extensions > Manage > Installation**.
3. In the **Upload Package File** tab, click **Browse for file**, or drag the file from the **Drag and drop the file to be transferred** box.
4. If you have clicked **Search for file**, go to the location where you saved the `Systempay_Virtuemart_3.x_v2.2.x.zip` file and select it.
Then click the **Send** button.

5.3. Plugin activation

If the payment module is not activated,

1. Go to **Extensions > Plugins**.
2. Enter **Systempay** in the search field and click **Search**.
Systempay corresponds to standard payment.
Systempay payment in installments corresponds to payment in installments.

3. Activate the module by clicking **Enable** in the action bar, the action must be performed for both modules if you want to offer standard payment and payment in installments.

5.4. Adding a new payment method

To add the payment module, you have to:

1. Go to the **VirtueMart > Payment method** menu.
2. Click on the **New** button located at the top in the actions toolbar.

Fill in the payment module information as follows:

- Payment mode name: **Systempay**.
- Published: **Yes**.
- Payment description: **Payment by credit card**.
- Payment method: Select **VM-Payment, Systempay**.
- Shopper group: Select the shopper group you would like to offer the payment to, it is recommended to leave the **Default** value.
- List order: Leave empty or modify depending on the desired display order.

Click on the **Save** button then click on the **Configuration** tab.

Si you are willing to offer the installment payment, proceed the same way by creating a new payment method and then by selecting: **VM-Payment, Systempay** installment payment as **Payment mode**.

5.5. Configuring standard payment

To configure the payment module, you have to:

1. Go to the **VirtueMart > Payment method** menu.
2. Select the single payment module, the label differs depending on the value previously entered in the **Payment method name** field.
3. Click on the **Configuration** tab.

Module settings	
Logo	Click the Browse button to access your hard drive and thus select the logo of your choice to modify it. The buyer will see this logo when choosing a payment method.
Activate the debug function	Activates log generation.
Fee per transaction	Charges extra fees when this payment method is chosen.
Percentage of the total amount	Applies a markup on the total amount of the order when this payment method is chosen.
Tax	Tax to apply when this payment method is chosen.

Access to the payment gateway	
Shop ID	Indicate the 8-digit shop ID, available in your Merchant Back Office (Menu: Settings > Shop > Keys).
Test key	Specify the test key available via your Merchant Back Office (Menu: Settings > Shop > Keys).
Production key	Specify the production key available in your Merchant Back Office (Menu: Settings > Shop > Keys). Note that the production key will only become available after the test phase has been completed.
Mode	Allows to indicate the operating mode of the module (TEST or PRODUCTION). The PRODUCTION mode becomes available only after the test phase has been completed. The TEST mode is always available.
Signature algorithm	Algorithm used to compute the signature of the payment form. The algorithm must be the same as the one configured in the Merchant Back Office (Settings > Shop > Keys). If the algorithm is different, the parameter will have to be modified via the Merchant Back Office.
Instant Payment Notification URL	URL to copy in your Merchant Back Office (Settings > Notification rules > Instant Payment Notification URL at the end of the payment > Instant Payment Notification URL of the API form V1, V2 menu). For more information, see the chapter and the sub-chapters on Configuring the notification URL .
Payment page URL	This field is pre-populated by default: https://paiement.systempay.fr/vads-payment/

Payment page	
Default language	This option allows to choose the default language of the payment page in case the language of Virtuemart is not supported by Systempay. If the language(s) used by the Virtuemart is (are) implemented into Systempay, the payment page will be displayed in the language of Virtuemart when the buyer clicks on "Pay".
Available languages	Allows to customize the language displayed on the payment page. The buyer will be able to select a language when he or she is redirected to the payment page. If you do not select any language, all languages will be displayed on the payment page. To select a language, press and hold the "Ctrl" key and click on the desired languages.

Payment page	
	<p><u>Available languages:</u> German, English, Chinese, Spanish, French, Italian, Japanese, Dutch, Polish, Portuguese, Russian, Swedish, Turkish.</p>
Capture delay	<p>Indicates the delay (in days) before the capture. By default, this parameter can be configured in your Merchant Back Office (menu: Settings > Shop > Configuration - section: Capture delay). It is recommended to not populate this parameter.</p>
Validation mode	<p><u>Back Office configuration:</u> Recommended value. Allows to use the configuration defined in the Merchant Back Office (menu: Settings > Shop > Configuration section: validation mode). <u>Automatic:</u> This value indicates that the payment will be captured in the bank automatically without any action on the merchant's part. <u>Manual:</u> This value indicates that the transactions will require manual validation by the merchant via the Merchant Back Office. <u>Warning:</u> if the transaction is not validated by the merchant before the expiration date of the authorization request, it will never be captured in the bank. Remember to configure the Instant Payment Notification rule on an operation coming from the Back Office to update the order status in Virtuemart.</p>
Card types	<p>This field allows to select the cards logo to be displayed on the payment page. Warning: The payment types offered to the buyer on the payment page depend on the contracts and options associated with your Systempay offer. It is recommended to leave this parameter empty.</p>

Custom 3DS	
Managing 3DS	<ul style="list-style-type: none"> <p>In 3DS1: Disables the 3DS1 process during an e-commerce payment. Requires the Selective 3DS1 option.</p> <div style="background-color: #f0f0f0; padding: 5px;"> <p>IMPORTANT This feature will become obsolete as soon as the 3DS1 version is no longer supported by the networks. As of October 2020, issuers can refuse the transaction if 3D Secure authentication has not been performed. This behavior is called "Soft Decline". To reduce the number of rejected payments, the payment gateway automatically makes a new payment attempt with 3D Secure authentication, when possible.</p> </div> <p>In 3DS2: Allows to request authentication without interaction (frictionless). Requires the Frictionless 3DS2 option.</p> <ul style="list-style-type: none"> For payments made in euro, if the amount is lower than €30, a request for frictionless is transmitted to the DS. If the request for frictionless is accepted by the issuer, the merchant loses the payment guarantee. For payments made in euros, if the amount is greater than €30, the value transmitted by the merchant is ignored and the management of cardholder authentication is delegated to the gateway. For payments made in a currency other than euro, a request for frictionless is transmitted to the DS.

Restrictions	
Minimum amount	This field defines the minimum amount for which you wish to offer this payment method.
Maximum amount	This field defines the maximum amount beyond which you do not wish to offer this payment method.

Restrictions	
Automatic redirection	This option allows to automatically redirect the buyer to the merchant website. This option depends on the following settings. This option is disabled by default.
Time before redirection (success)	If the automatic redirection option is enabled, you can define the delay in seconds before your buyer is redirected to your shop in case of a successful payment.
Message before redirection (success)	If the automatic redirection option is enabled, you can define the message that will appear on the screen following a successful payment before your buyer is redirected to the shop. The default message is: "Redirection to the shop in a moment".
Time before redirection (failure)	If the automatic redirection option is enabled, you can define the delay in seconds before your buyer is redirected to your shop in case of a failed payment.
Message before redirection (failure)	If the automatic redirection option is enabled, you can define the message that will appear on the screen following a failed payment before your buyer is redirected to the shop. The default message is: "Redirection to the shop in a moment".
Return mode	During the redirection to the shop, these parameters are returned to the shop in GET or POST modes. The GET mode is more convenient for the buyer as it allows to prevent the browser from displaying a pop-up window that indicates that the buyer is leaving an https environment for an http environment which obliges the buyer to click on "Accept" to return to the shop.
Order status (payment accepted)	Select the Registered orders status. It is recommended to leave the default value.
Order status (payment declined)	Select the status to apply to failed orders. It is recommended to leave the default value.

Once you have completed the configuration, click **Save**.

5.6. Configuring installment payment

To configure the payment module, you have to:

1. Go to the **VirtueMart > Payment method** menu.
2. Select the installment payment module, the label differs depending on the value previously entered in the **Payment method name** field.
3. Click on the **Configuration** tab.

Module settings	
Logo	Click the Browse button to access your hard drive and thus select the logo of your choice to modify it. The buyer will see this logo when choosing a payment method.
Activate the debug function	Activates log generation.
Fee per transaction	Charges extra fees when this payment method is chosen.
Percentage of the total amount	Applies a markup on the total amount of the order when this payment method is chosen.
Tax	Tax to apply when this payment method is chosen.

Access to the payment gateway	
Shop ID	Indicate the 8-digit shop ID, available in your Merchant Back Office (Menu: Settings > Shop > Keys).
Test key	Specify the test key available via your Merchant Back Office (Menu: Settings > Shop > Keys).
Production key	Specify the production key available in your Merchant Back Office (Menu: Settings > Shop > Keys).

Access to the payment gateway	
	Note that the production key will only become available after the test phase has been completed.
Mode	Allows to indicate the operating mode of the module (TEST or PRODUCTION). The PRODUCTION mode becomes available only after the test phase has been completed. The TEST mode is always available.
Signature algorithm	Algorithm used to compute the signature of the payment form. The algorithm must be the same as the one configured in the Merchant Back Office (Settings > Shop > Keys). If the algorithm is different, the parameter will have to be modified via the Merchant Back Office.
Instant Payment Notification URL	URL to copy in your Merchant Back Office (Settings > Notification rules > Instant Payment Notification URL at the end of the payment > Instant Payment Notification URL of the API form V1, V2 menu). For more information, see the chapter and the sub-chapters on Configuring the notification URL .
Payment page URL	This field is pre-populated by default: https://paiement.systempay.fr/vads-payment/

Payment page	
Default language	This option allows to choose the default language of the payment page in case the language of Virtuemart is not supported by Systempay. If the language(s) used by the Virtuemart is (are) implemented into Systempay, the payment page will be displayed in the language of Virtuemart when the buyer clicks on "Pay".
Available languages	Allows to customize the language displayed on the payment page. The buyer will be able to select a language when he or she is redirected to the payment page. If you do not select any language, all languages will be displayed on the payment page. To select a language, press and hold the "Ctrl" key and click on the desired languages. Available languages: German, English, Chinese, Spanish, French, Italian, Japanese, Dutch, Polish, Portuguese, Russian, Swedish, Turkish.
Capture delay	Indicates the delay (in days) before the capture. By default, this parameter can be configured in your Merchant Back Office (menu: Settings > Shop > Configuration - section: Capture delay). It is recommended to not populate this parameter.
Validation mode	Back Office configuration: Recommended value. Allows to use the configuration defined in the Merchant Back Office (menu: Settings > Shop > Configuration section: validation mode). Automatic: This value indicates that the payment will be captured in the bank automatically without any action on the merchant's part. Manual: This value indicates that the transactions will require manual validation by the merchant via the Merchant Back Office. Warning: if the transaction is not validated by the merchant before the expiration date of the authorization request, it will never be captured in the bank. Remember to configure the Instant Payment Notification rule on an operation coming from the Back Office to update the order status in Virtuemart.
Card types	This field allows to select the cards logo to be displayed on the payment page. Warning: The payment types offered to the buyer on the payment page depend on the contracts and options associated with your Systempay offer. It is recommended to leave this parameter empty.

Custom 3DS	
Managing 3DS	<ul style="list-style-type: none"> In 3DS1: Disables the 3DS1 process during an e-commerce payment. Requires the Selective 3DS1 option. <div style="border: 1px solid black; background-color: #f0f0f0; padding: 5px; margin: 5px 0;"> <p>IMPORTANT</p> <p>This feature will become obsolete as soon as the 3DS1 version is no longer supported by the networks.</p> <p>As of October 2020, issuers can refuse the transaction if 3D Secure authentication has not been performed.</p> <p>This behavior is called “Soft Decline”.</p> <p>To reduce the number of rejected payments, the payment gateway automatically makes a new payment attempt with 3D Secure authentication, when possible.</p> </div> <ul style="list-style-type: none"> In 3DS2: Allows to request authentication without interaction (frictionless). Requires the Frictionless 3DS2 option. <ul style="list-style-type: none"> For payments made in euro, if the amount is lower than €30, a request for frictionless is transmitted to the DS. If the request for frictionless is accepted by the issuer, the merchant loses the payment guarantee. For payments made in euros, if the amount is greater than €30, the value transmitted by the merchant is ignored and the management of cardholder authentication is delegated to the gateway. For payments made in a currency other than euro, a request for frictionless is transmitted to the DS.

Payment in installments	
First installment	Amount of the first installment, expressed as a percentage of the total amount. Example: For an amount of EUR 100 in 3 installments, you can set the percentage of the first payment at 50% of the amount. This means that the amount of the first installment will be EUR 50 and that the two others will be of EUR 25. For 50% enter 50 . If you want the amount of every installment to be the same, leave this field empty.
Number	Number of installments: 3 for payment in 3 installments 4 for payment in 4 installments etc.
Period	Period (in days) between each installment.

Restrictions	
Minimum amount	This field defines the minimum amount for which you wish to offer this payment method.
Maximum amount	This field defines the maximum amount beyond which you do not wish to offer this payment method.

Restrictions	
Automatic redirection	This option allows to automatically redirect the buyer to the merchant website. This option depends on the following settings. This option is disabled by default.
Time before redirection (success)	If the automatic redirection option is enabled, you can define the delay in seconds before your buyer is redirected to your shop in case of a successful payment.
Message before redirection (success)	If the automatic redirection option is enabled, you can define the message that will appear on the screen following a successful payment before your buyer is redirected to the shop. The default message is:

Restrictions	
	“Redirection to the shop in a moment”.
Time before redirection (failure)	If the automatic redirection option is enabled, you can define the delay in seconds before your buyer is redirected to your shop in case of a failed payment.
Message before redirection (failure)	If the automatic redirection option is enabled, you can define the message that will appear on the screen following a failed payment before your buyer is redirected to the shop. The default message is: “Redirection to the shop in a moment”.
Return mode	During the redirection to the shop, these parameters are returned to the shop in GET or POST modes. The GET mode is more convenient for the buyer as it allows to prevent the browser from displaying a pop-up window that indicates that the buyer is leaving an https environment for an http environment which obliges the buyer to click on “Accept” to return to the shop.
Order status (payment accepted)	Select the Registered orders status. It is recommended to leave the default value.
Order status (payment declined)	Select the status to apply to failed orders. It is recommended to leave the default value.

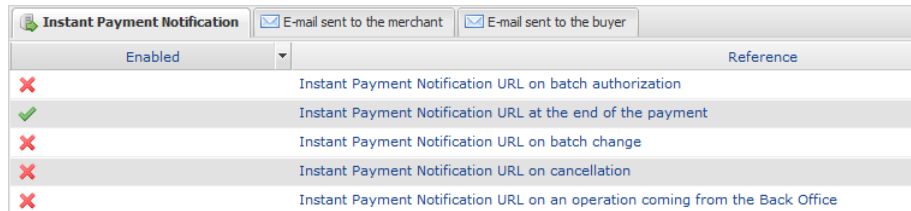
Once you have completed the configuration, click **Save**.

6. SETTING UP THE INSTANT PAYMENT NOTIFICATION URL

The Merchant Back Office provides several types of notifications. They allow to manage the events that will generate a call to the merchant website and to configure the URL of the contact page.

To access notification rule management:

1. Sign in to: <https://paiement.systempay.fr/vads-merchant/>.
2. Go to the following menu: **Settings > Notification rules.**



Instant Payment Notification	
<input checked="" type="checkbox"/> E-mail sent to the merchant <input checked="" type="checkbox"/> E-mail sent to the buyer	
Enabled	Reference
✗	Instant Payment Notification URL on batch authorization
✓	Instant Payment Notification URL at the end of the payment
✗	Instant Payment Notification URL on batch change
✗	Instant Payment Notification URL on cancellation
✗	Instant Payment Notification URL on an operation coming from the Back Office

Figure 1: Notification rules

Right click > Enable the rule if a red cross appears in the **Enabled** column of the following rules:

- Instant Payment Notification URL at the end of the payment
- Instant Payment Notification URL on cancellation

6.1. Setting up the Instant Payment Notification

This notification is required to communicate the result of a payment request.

In your Merchant Back Office, you must set up a URL that will be systematically called after a payment. It will inform the merchant website of the payment result even if your client has not clicked on return to the shop.

This parameter is called Instant Payment Notification URL at the end of the payment.

To set up this notification:

1. Right-click **Instant Payment Notification URL at the end of the payment**.
2. Select **Enable the rule**.
3. Right-click **Instant Payment Notification URL at the end of the payment** once again.
4. Select **Manage the rule**.
5. Enter the following URL in the fields **URL to call in TEST mode** and **URL to call in PRODUCTION mode (Notification URL of the Hosted payment page V1, V2 section)**:

`http://www.your-domain.com/index.php?option=com_virtuemart&view=pluginresponse&task=pluginnotification&tmpl=component`

Replace **your-domain.com** with the domain name of your website.

6. Enter the **E-mail address(es) to notify in case of failure**.
7. To specify several e-mail addresses, separate them with a semi-colon.
8. Set up the parameters for **Automatic retry in case of failure**.

This option allows to automatically send notifications to the merchant website in case of failure (up to 4 times).

A notification will be considered as failed if the HTTP code returned by the merchant server is not on the following list: **200, 201, 202, 203, 204, 205, 206, 301, 302, 303, 307, 308**.

Automatic retry does not apply to notifications manually triggered via the Merchant Back Office.

Call attempts are scheduled at fixed intervals every 15 minutes (00, 15, 30, 45). After each failed attempt, a notification e-mail is sent to the e-mail address specified earlier.

9. Save the changes.

6.2. Setting up notifications in case of abandoned or canceled payments

The payment gateway can systematically notify the merchant website:

- When the buyer abandons/cancels a payment - via the **Cancel and return to shop** button.
- When the buyer has not completed the payment and the payment session has expired.

The maximum length of a payment session is 10 minutes.

To set up this notification:

1. Right-click Instant Payment Notification URL on cancellation.

2. Select Manage the rule.

3. Enter the E-mail address(es) to notify in case of failure.

4. To specify several e-mail addresses, separate them with a semi-colon.

5. Set up the parameters for Automatic retry in case of failure.

This option allows to automatically send notifications to the merchant website in case of failure (up to 4 times).

6. Enter the following URL in the fields URL to call in TEST mode and URL to call in PRODUCTION mode (Notification URL of the Hosted payment page V1, V2 section):

http://www.your-domain.com/index.php?

option=com_virtuemart&view=pluginresponse&task=pluginnotification&tmpl=component

Replace **your-domain.com** with the domain name of your website.

7. Save the changes.

8. Once again, right-click Instant Payment Notification URL on cancellation.

9. Select Enable the rule.

6.3. Testing the Instant Payment Notification URL

In order to make sure that the Instant Payment Notification functions correctly, follow these steps:

1. Make sure that your URL is available online: your shop must neither be **in maintenance mode** nor be protected by an .htaccess file.
2. Make sure that your notification URL is available without any redirection.
 - a. To do this, paste your notification URL to the address bar of your browser and launch the search.
 - b. Make sure your URL did not change.

If your URL has changed, for example from "*http*" to "*https*" or "*http://abc.net*" to "*http://www.abc.net*", it means a redirection is active on your website. Then, copy the URL from the address bar and modify the URL filled in the configuration of all notification rules.
3. Make sure that the "Automatic redirection" option is disabled in the payment module settings.
4. Check that the **Instant Payment Notification URL at the end of payment** is populated in the Merchant Back Office (see above).
5. Make an order on your website and proceed to payment.
6. **Do not click on** "Return to shop" at the end of payment and close the current tab of your browser.
7. Make sure that the status of your order is **Confirmed** in the **Virtuemart > Orders** menu.

If the order status remains **Pending**, the call has failed.

If the payment gateway is unable to access the URL of your page, an e-mail will be sent to the shop administrator.

It contains:

- The HTTP code of the encountered error
- Parts of error analysis
- Its consequences
- Instructions to resend the notification to the URL already specified above from the Merchant Back Office

7. PROCEEDING TO TEST PHASE

Once the payment module has been configured and you have specified the IPN URLs, you can move on to test phase in order to generate the production key.

Different cases of payments can be simulated by using test card numbers specified on the payment page. The Merchant will be able to test all 3D Secure authentication results (if the Merchant is enrolled and 3DS is not disabled).

The list of the tests to perform for generating the production key is provided in the Merchant Back Office, **Settings > Shop > Keys** menu.

Tests control

Here is a summary of the tests performed up to now.
 You must perform a valid payment for each row in the table below.
 * manual payments are not taken into account ;
 * test payments are deleted after 30 days ;
 * the vads_page_action parameter must be set to PAYMENT or REGISTER_PAY.

CB	Mastercard	Maestro	Visa Electron	Payment date	Test status
4970100000000014	5970100300000018	5000550000000029	4917480000000008		✘
4970100000000055	5970100300000067	5000550000000052	4917480000000057		✘
4970100000000063	5970100300000075	5000550000000060	4917480000000065		✘
4970100000000071	5970100300000083	5000550000000078	4917480000000073		✘

Refresh the table

The "Generate the production key" button below will become operational once you have successfully completed all the required tests.
 Click on the Refresh the table button to update the test progress.

If your store does not have the test control table, it is not necessary to perform tests before going into production. You can directly click the **Generate production key** button to go into production. However, we recommend to make some payment tests to make sure that the payment solution is correctly integrated.

Each row of the list contains card numbers associated with the same scenario (i.e. 2 accepted payments and 2 refused payments).

Each column corresponds to a different card type: CB/VISA, MASTERCARD, MAESTRO, VISA ELECTRON.

To perform the test phase:

1. Make an order on your merchant website as if you were one of your buyers.
2. Select the payment method "**Payment by credit card**".
3. Once redirected to the payment page, select the card type of your choice.
4. Refer to the list of tests to identify the card number to use.
5. Once a test has been validated, its status is updated in the list. Click the **Refresh the table** button if the status has not been updated automatically.
6. Once the 4 tests have been validated, the **Generate production key** button becomes available.

Tests control

Here is a summary of the tests performed up to now.
You must perform a valid payment for each row in the table below.
* manual payments are not taken into account ;
* test payments are deleted after 30 days ;
* the vads_page_action parameter must be set to PAYMENT or REGISTER_PAY.

CB	Mastercard	Maestro	Visa Electron	Payment date	Test status
4970100000000014	5970100300000018	5000550000000029	4917480000000008	03/01/2019 10:53:24	✓
4970100000000055	5970100300000067	5000550000000052	4917480000000057	03/01/2019 10:55:29	✓
4970100000000063	5970100300000075	5000550000000060	4917480000000065	03/01/2019 10:56:32	✓
4970100000000071	5970100300000083	5000550000000078	4917480000000073	03/01/2019 10:57:39	✓

[Refresh the table](#)

All the required tests have been successfully completed. You can now generate the production key by clicking on the below button.

[Generate the production key](#)

7. Click the **Generate production key** button and accept the notification messages that will appear.

The production key is now available.

8. SHIFTING THE SHOP TO PRODUCTION MODE

After you receive a confirmation e-mail informing you that a key has been generated, you can configure the payment method by following the steps below:

- Retrieve the production key available in the Merchant Back Office (**Settings > Shop > Keys**).
- In the module configuration parameters:
 - Populate the **Production key** field.
 - Switch from TEST to PRODUCTION mode.
 - Save the changes.
- Make sure that you have specified the Instant Payment Notification URL in production mode, as described in the chapter **Setting up the Instant Payment Notification URL**.

Once the production parameters have been configured for your store, we recommend to make a real payment to make sure that your banking contract is functional.

You will then be able to cancel the payment via the Merchant Back Office.

Note on the production key:

For security reasons, this key will no longer be visible as soon as the first transaction in production mode is made in your shop.

Note on the TEST mode:

Once your shop is in production mode, the TEST mode remains available.

To work in test mode, follow the steps below:

- Switch from PRODUCTION to TEST mode.
- Make sure that the **Test key** is correct.
- Save the changes.

9. OBTAINING HELP

Looking for help? Check our FAQ on our website

<https://paiement.systempay.fr/doc/en-EN/faq/sitemap.html>

For any technical inquiries or if you need any help, contact *technical support*.

In view of facilitating the processing of your demands, you will be asked to communicate your shop ID (an 8-digit number).

This information is available in the “registration of your shop” e-mail or in the Merchant Back Office (**Settings > Shop > Configuration**).