



COLLECTING SOLUTION

Integrate Lyra on OpenCart 4

Document version 5.0

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1. RELEASE NOTES

To follow all the developments in the payment module :

1. Download the module from our online documentation archive.
2. Open the previously downloaded payment module.
3. Open the **lyra.ocmod.zip** file
4. Open the **CHANGELOG.md** file.

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2. MODULE FEATURES

Payment types	
Immediate payment	✓
Deferred payment	✓
Payment in installments	✓
Payment by token*	✗
Payment by wallet*	✗

Bank card data entry	
Redirection	✓
I-frame	✗
Embedded payment*	✗
Web Service*	✗

Payment operations via OpenCart	
Cancellation*	✗
Refund*	✗
Modification*	✗
Validation*	✗
Duplication*	✗

Compatibility with OpenCart	
OpenCart 4.x	✓
OpenCart 3.x	✗
OpenCart 2.3	✗
OpenCart 2.0-2.2	✗

Payment module	
Multi language	✓
Multi currency	✓
Custom submodule	✗
Automatic redirection at the end of payment	✓
3D Secure	✓
Custom 3DS*	✓
Order status management	✓

*Functionalities subject to an option.

3. PREREQUISITES

Before you proceed to integrating the payment module, make sure you have access to the:

- **OpenCart Back Office:**
- **Expert Back Office**
- **Payment module file:** Lyra_OpenCart_4.x_v5.0.x.zip

OpenCart Back Office :

Sign in via your website's Back Office, the URL should look like this:

<https://your-domain.com/admin/>

Reach out to your technical service if you cannot sign in.

Expert Back Office :

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

<https://secure.lyra.com/portal/>

Click "**Other actions**" and sign in to your Expert Back Office.

Payment module:

Download the module using the following URL:

<https://docs.lyra.com/en/collect/plugins/#opencart>

WARNING: All our payment modules are tested with a minimal PHP version, this version can be seen in our online documentation archive.

If you have an older version, we invite you to contact the technical manager in charge of your site so that he updates the PHP version of the server. Thus, our support service will be able to assist you if you encounter a problem with our module.

4. INSTALLING THE PAYMENT MODULE

4.1. 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 Lyra Back Office.

To update the payment module:

1. Sign in to your **OpenCart Back Office**.
2. Click on **Extensions** menu.
3. Click the **Extensions** sub menu.
4. Select the **Payments** *Extension type*.
5. Search for the Lyra module and click 
6. Click the **Installer** sub menu.
7. Search for the Lyra module and click 
8. Search for the Lyra module and click 
9. Refer to the next chapter to install the module.

4.2. Installing the module

To install the payment module:

1. Unzip the payment module file *Lyra_OpenCart_4.x_v5.0.x.zip*.
You should obtain the following file: *lyra.ocmod.zip*
2. Sign in to your **OpenCart Back Office**.
3. Click on **Extensions** menu.
4. Click the **Installer** sub menu.
5. Click .
6. Search the *lyra.ocmod.zip* file.
7. Select the payment module, then click the **Install** button.
8. Search for the *Lyra* module and click 

5. QUICK MODULE CONFIGURATION

This chapter will help you configure and quickly make your shop go into production.

If you want to learn more about the module, feel free to consult the following chapters.

5.1. Configuring the shop

1. Log in to the *Expert Back Office*, via le *Marchant Back Office Lyra* with your identifiers :
<https://secure.lyra.com/portal/>
Click **Other actions** and then click on the **Expert Back Office** button.
2. Go to **Settings > Shop**.
3. Click the **Keys** tab.
4. Copy your **Shop ID**.
5. Open another tab in your browser.
6. Sign in to your *OpenCart Back Office*.
7. Click on **Extensions** menu.
8. Click the **Extensions** sub menu.
9. Select the **Payments** *Extension type*.
10. Search for **Lyra - Standard Payment** and then click on 
11. Search for **Lyra - Standard Payment** and then click on 
12. Paste your **Shop ID** to the *Access to the payment gateway*.
13. Return to the *Expert Back Office*.
14. Copy your **Test key**.
15. Return to the *OpenCart Back Office*.
16. Paste your **Test key** to the *Access to the payment gateway*.
17. To save your changes, click on 

5.2. Configuring the Instant Payment Notification URL

1. Sign in to your *OpenCart Back Office*.
2. Click on **Extensions** menu.
3. Click the **Extensions** sub menu.
4. Select the **Payments** *Extension type*.
5. Search for **Lyra - Standard Payment** and then click on 
6. Search for *ACCESS TO THE PAYMENT GATEWAY* section.
7. Copy the URL from the **Instant Payment Notification URL** parameter.
8. Open another tab in your browser.
9. Sign in to the **Expert Back Office Lyra**: <https://secure.lyra.com/portal/>.
10. Go to **Settings > Notification rules**.

11. Double click on **Instant Payment Notification URL at the end of the payment.**

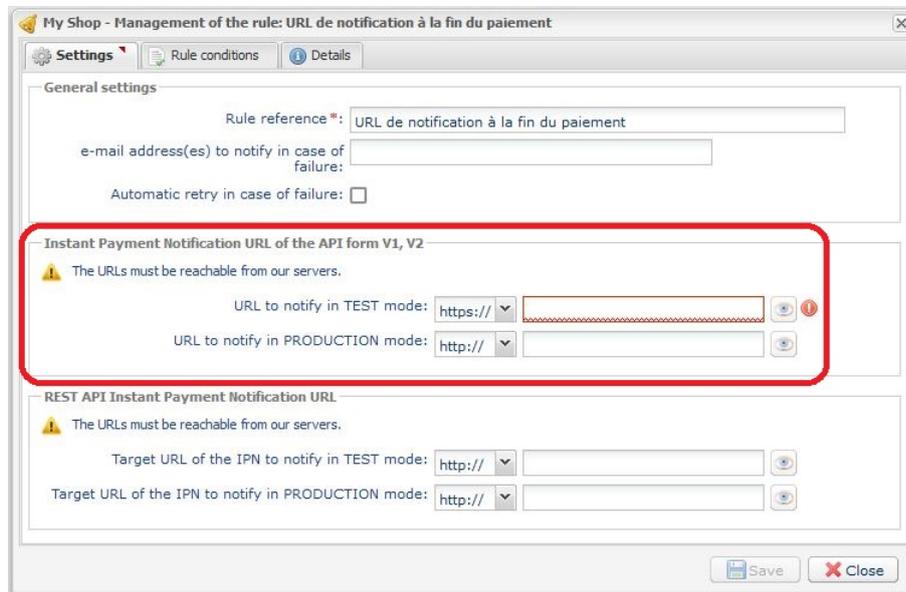
12. Check the **Automatic retry in case of failure** box.

13. Search for the *Instant Payment Notification URL of the API form V1, V2* section.

14. Paste the previously copied URL to **URL to call in TEST mode** and **URL to call in PRODUCTION mode.**

If the production URL is different from your test URL, specify it in order to not forget it later. Your URL should look like this:

<https://www.your-domain.com/index.php?route=extension/lyra/payment/lyra.callback>



15. Click **Save**.

16. Double click on **Instant Payment Notification URL on cancellation.**

17. Carry out the same operation from step 13 to step 16.

18. If the configured rules are marked by a red cross, select the rule and click on the **Enable the rule** button at the bottom of the screen.

5.3. Testing the payment on your website

To make a test payment:

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. Choose a payment method if your configuration offers it.
4. Click on one of the card numbers displayed on the screen, all the fields will be populated automatically.
5. Confirm your payment.
6. Make sure that the order is appears in the OpenCart Back Office.

5.4. Going into production

To go into production via the redirection :

1. Log in to the *Expert Back Office*, via le *Marchant Back Office Lyra* with your identifiers :
<https://secure.lyra.com/portal/>

Click **Other actions** and then click on the **Expert Back Office** button.

2. Go to **Settings > Shop**.
3. Click the **Keys** tab.
4. Copy the *production key*.
5. Open another tab in your browser.
6. Sign in to your *OpenCart Back Office*.
7. Click on **Extensions** menu.
8. Click the **Extensions** sub menu.
9. Select the **Payments** *Extension type*.
10. Search for **Lyra - Standard Payment** and then click on 
11. Paste your key to the **Production key** parameter.
12. Change the *Mode* parameter to **PRODUCTION**.
13. To save your changes, click on 
14. Your shop can now receive real payments.

6. OTHER AVAILABLE FEATURES

6.1. Add installment payment on OpenCart

To add installment payment on OpenCart 4:

1. Log in to the *Expert Back Office*, via le *Marchant Back Office Lyra* with your identifiers :
<https://secure.lyra.com/portal/>

Click **Other actions** and then click on the **Expert Back Office** button.

2. Go to **Settings > Shop**.

3. Click the **Keys** tab.

4. Copy your **Shop ID**.

5. Open another tab in your browser.

6. Sign in to your *OpenCart Back Office*.

7. Click on **Extensions** menu.

8. Click the **Extensions** sub menu.

9. Select the **Payments** *Extension type*.

10. Search for **Lyra - Payment in installments** and then click on 

11. Search for **Lyra - Payment in installments** and then click on 

12. Paste your **Shop ID** to the *Access to the payment gateway*.

13. Return to the *Expert Back Office*.

14. Copy your **Test key**.

15. Return to the *OpenCart Back Office*.

16. Paste your **Test key** to the *Access to the payment gateway*.

17. Return to the *Expert Back Office*.

18. Copy the *production key*.

19. Return to the *OpenCart Back Office*.

20. Paste your key to the **Production key** parameter.

21. Change the *Mode* parameter to **PRODUCTION**.

22. Click the **Payment in installments** tab.

23. Enter the percentage of the first payment in the **First installment** parameter.
Example: Enter **50** for 50%.

24. Enter a total number of due dates in the **Number** field.
Example: 3

25. Enter the time in days between two due dates via the **Period** parameter.
Example: 30

26. To save your changes, click on 

6.2. Customize the title displayed to the buyer on OpenCart

By default, the message displayed to the buyer by Lyra is the following: *Payment by credit card*.

It is possible to personalize this title to display, for instance: *Card payment with Lyra*.

To modify the title, open the `lyra.php` file located in: `Catalog\language\en-US\extension\payment`

Locate the code below, then replace *Payment by credit card* with the desired title:

```
$_['text_payment_lyra_title'] =  
    'Card payment with Lyra';
```

You can also modify the title for the installment payment:

```
$_['text_payment_lyra_multi_title'] =  
    'Card payment in %s installments with Lyra';
```

7. ADDITIONAL INFORMATION ABOUT THE MODULE

7.1. Description of all parameters

7.1.1. General configuration

Access to the payment gateway	
Shop ID	Indicate the 8-digit shop ID, available in your Expert Back Office (Menu: Settings > Shop > Keys).
Test key	Specify the test key available via your Expert Back Office (Menu: Settings > Shop > Keys).
Production key	Specify the production key available in your Expert Back Office (Menu: Settings > Shop > Keys).
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 Expert Back Office (Settings > Shop > Keys). If the algorithm is different, the parameter will have to be modified via the Expert Back Office.
Instant Payment Notification URL	URL to copy in your Expert 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://secure.lyra.com/vads-payment/

Payment page	
Default language	This option allows to choose the default language of the payment page in case the language of OpenCart is not supported by Lyra Collect. If the language(s) used by the OpenCart is (are) implemented into Lyra Collect, the payment page will be displayed in the language of OpenCart 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. <u>Available languages:</u>

Payment page	
	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 Expert 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 Expert 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 Expert 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 OpenCart.
Card types	Select the payment methods you want to display on the payment page. Hold down the <i>Ctrl</i> key if you want to select multiple payment methods. <div style="border: 1px solid #ffc107; padding: 5px; margin: 10px 0;"> The payment types offered to the buyer on the payment page depend on the contracts and options associated with your Lyra offer.</div> It is recommended not to select anything to display all payment methods compatible with your shop.

Custom 3DS	
Managing 3DS	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.

Return to shop	
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.

Return to shop	
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 POST or GET modes. The POST mode is set by default.

To save your changes, click on 

7.1.2. Standard payment

Module configuration	
Activation	Select the Enabled option to activate the payment method.
Order	If you offer several payment methods, enter a number in the Sort order field to determine the position of this payment method. The payment methods appear in ascending order according to the Sort order value.
Payment area	Define the payment area to which this payment method will apply. The All value means that the module applies to all areas.
Logs	Allows to enable or disable module logs. This parameter is enabled by default.

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 for which you do not wish to offer this payment method.

To save your changes, click on 

7.1.3. Payment in installments

Module configuration	
Activation	Select the Enabled option to activate the payment method.
Order	If you offer several payment methods, enter a number in the Sort order field to determine the position of this payment method.

Module configuration	
	The payment methods appear in ascending order according to the Sort order value.
Payment area	Define the payment area to which this payment method will apply. The All value means that the module applies to all areas.
Logs	Allows to enable or disable module logs. This parameter is enabled by default.

Payment options	
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 for which you do not wish to offer this payment method.

To save your changes, click on 

7.1.4. Orders

Order status	
Status of orders when payment is successful	Select the order status from the list of accepted payment statuses.
Status of orders when payment is declined	Choose the order status from the list of declined payment statuses.
Status of orders when payment is canceled	Choose the order status from the list of cancellation by the buyer statuses.
Notify the buyer in case of declined payment	Select Yes if you want to notify the buyer by e-mail in case of a declined payment.
Notify the buyer in case of cancellation	Select Yes if you want to notify the buyer by e-mail in case of cancellation.

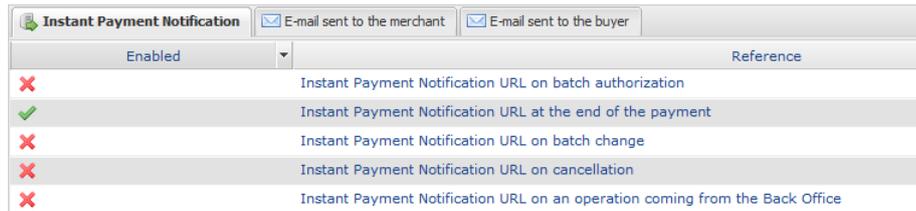
To save your changes, click on 

7.2. Instant Payment Notification URL

The Expert 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://secure.lyra.com/portal/>.
2. Click **Other actions** and sign into your Expert Back Office
3. 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	
<input type="checkbox"/>	Instant Payment Notification URL on batch authorization		
<input checked="" type="checkbox"/>	Instant Payment Notification URL at the end of the payment		
<input type="checkbox"/>	Instant Payment Notification URL on batch change		
<input type="checkbox"/>	Instant Payment Notification URL on cancellation		
<input type="checkbox"/>	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

7.2.1. Notification URL definitions

Instant Payment Notification URL at the end of the payment :

This notification is **required** for communicating the result of the payment request.

In your Expert 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.

Instant Payment Notification URL on cancellation :

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.

7.2.2. Testing the 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 Expert 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 order has been created in the **Sales > Orders** menu of the OpenCart Back Office.

If the order has not been created in the OpenCart Back Office, this means that 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, from the Expert Back Office, the notification to the URL already specified above

8. OBTAINING HELP

Looking for help? See [our FAQ](#).

For any questions, contact [the tech support](#).

To help us process your demands, please have your customer code ready (e.g.: **CLXXXXX**, **MKXXXXX** or **AGXXXXX**).

This information is available in the Merchant Back Office at the top of the menu.