

## Magento 2 integration guide (for version 2.4.3)

### 1. Steps to setup Magento 2:

#### Server Requirements:

The first step in setting up your Fiserv Payment gateway is to install Magento2 along with Fiserv Plugin itself. But before doing so, you should check your hosting environment. As a guide, we recommend

- PHP requirements:
  1. Version: (**Minimum**) [7.1.x], (**Recommended**) [7.4.X].
  2. Required php.ini settings: For versions 7.4.x, uncomment **"always\_populate\_raw\_post\_data= -1"**.
  3. Memory limit: 1024M (**Minimum**), 2G (**Recommended**).
  4. Extensions to be enabled: curl, gd2, intl , mbstring, mcrypt, openssl, PDO/MySQL, SimpleXML , xsl, zip, xmlrpc, sodium, fileinfo, pdo\_odbc, pdo\_sqlite, soap, sockets, sodium,
- Apache Requirements.
  1. Version: Apache (2.4).
  2. Settings to be changed in **<Apache root directory>/conf/httpd.conf:**.
    - Enable **mod\_rewrite.so, mod\_access\_compat.so**.
    - Change **AllowOverride None** to **AllowOverride All** under "<Directory **"\${SRVROOT}/htdocs"**>".



### 2. Steps to install Fiserv Payment Gateway Plugin in magento2.

- Unzip the code drop and copy the files to **app/code** folder
- After copying all the files, open a command prompt window and run the following commands.
  1. **cd <Your Magento2 Installation directory>.**
  2. **php bin/magento setup:upgrade.**
  3. **php bin/magento setup:static-content: deploy**
  4. To check whether our plugin has been installed, login to Magento admin Panel and navigate to **Stores > Configuration > Sales > Payment Methods**.



- **Display Logo:** If you wish to show Reseller logo in the checkout page, enable “Display Logo” dropdown. Upon enabling reseller logo will be displayed in checkout page as like below.

### Payment Method


Fiserv Payment Gateway


☒ My billing and shipping address are the same

Theebanraj Selvaraj  
AMUDHAM, 1234  
DHARAMAPURI, Tamil Nadu 636701  
India

### Order Summary

Cart Subtotal	₹60.00
Shipping Flat Rate - Fixed	₹10.00
<b>Order Total</b>	<b>₹70.00</b>
2 Items in Cart	▼

- **Description:** Enter the Plugin Description to display in checkout screen.
- **Environment:** Select the environment you wish to setup the Fiserv Payment Gateway. Provide valid “**Shared Secret**” and “**Store name**” in respective fields.
- **URL configuration:** Plugin will have default built-in URL for Success, Failure and Notification URL, if not provided by Merchant in the configuration for the Success, Failure and Notification URL.
  - Merchant can customize the Success, Failure and Notification URL at their own risk of updating order detail, inventory & cart modifications based on Fiserv Gateway response.

PRODUCTS

CUSTOMERS

MARKETING

CONTENT

REPORTS

Environment

Production

▼

[WEBSITE]

?

Store ID

?

[WEBSITE]

Shared secret

?

[WEBSITE]

Response Success URL

?

[WEBSITE]

Response Failure URL

?

[WEBSITE]

- **Authorisation** dropdown is to enable transactions to be sent for settlement automatically, if disabled the transaction will need to be manually sent for settlement.
- **Checkout Mode** dropdown will give the option to select one of the below:

- **Combined Page** (Consolidates the payment method choices and the payment method into a single page).
- **Classic** (Splits the payment process into multiple pages).
- **Payment Mode** dropdown will give the option to select one of the below: This setting is available only when “**Checkout Mode**” is set as “**Classic**”.
  - **PayOnly** (Only the Card Number, Expiry Date and CVC are collected in Fiserv Payment Gateway).
  - **PayPlus** (Card Number, Expiry Date, CVC and a full set of billing information collected in Fiserv Payment Gateway).
  - **FullPay** (Card Number, Expiry Date, CVC and a full set of billing and shipping information collected in Fiserv Payment Gateway).
- Enabling **Tokenisation** will store customer card details in Fiserv Gateway for future transactions. Select **Enabled** in the Tokenisation dropdown to enable it.
- **3D Secure** dropdown will have active or deactivate options. Merchants need to be registered to avail this service and this can be done by contacting the relevant Fiserv Gateway support team.
- **Dynamic Currency Conversion**: Dynamic Currency Conversion offers customers the choice to either pay in your currency or their own currency at the checkout, based on a real-time currency conversion.
- Enabling **Error Logging** will save debug messages to the log file. The path to the log files is shown near the Error Logging dropdown
- **Authorisation Method** dropdown will give the below option for selection.
  - **Hosted Payment** (Hosted Payment Method will redirect the user to Fiserv Payment Gateway page to collect payment information like card details)

Configuration

Save Config

Authorisation	Yes	[WEBSITE]
Checkout Option	Classic	[WEBSITE]
Pay Mode	PayOnly	[WEBSITE]
Dynamic Descriptor	Lorem Ipsum	[WEBSITE]
Tokenisation	Yes	[WEBSITE]
3D Secure Active	Deactivated	[WEBSITE]
Error Logging	Yes	[WEBSITE]
The plugin log generated would be saved to the var/log/gateway.log file		
Authorisation UX	Hosted Payment	[WEBSITE]

## Instalments

- Merchant can setup different instalment options in plugin. Upon enabling instalments and Instalment configuration in the plugin, Customer will be provided the option on the Checkout page to choose either full payment or Instalment payment.

**Instalments Configuration**

Enable instalments

Instalments options

Name	MinAmount	MaxAmount	Count	Action
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

Click on add button to configure one or more payment options.  
**Label:**The option label to display on the frontend.  
**Min Amount:**Minimum amount to enable the payment option.  
**Max Amount:**Maximum amount to enable the payment option.  
**Contract:**id of the contract to use with the option(to be preferably left blank).  
**Count:**Total number of payments.  
**Period:**Delay (in days) between payments.  
Do not forget to click the "save config" button

- **Label:** The option label to display on the frontend.
- **Min Amount:** Minimum amount to enable the payment option.
- **Max Amount:** Maximum amount to enable the payment option.
- **Count:** Total number of payments.
- **Period:** Delay (in days) between payments. (Available only for Fiserv Mexico Reseller).

## Local Payment Method

- List of Local payment available for selected reseller will listed in the Payment Method drop down, Merchant can enable or disable local payment using “**Local Payments**” dropdown. Merchant can choose multiple local payment method from the Local Payments List drop down.

### Payment methods (Local/Alternative)

Local Payments  [WEBSITE]

Local Payments List

RuPay  
Netbanking (India)  
MasterPass  
Local Wallets India

[WEBSITE]

- To view the available Local payment methods for the selected country/reseller, save the configuration.
- Upon enabling Local Payment Method, check out screen will have option for user to choose the local payment method.

☒ Activate local payment methods

Select payment options:

--Select--

### **Void and Refunds**

- Configure API credentials and upload the required Server Trust, certificate PEM and Certificate Key files to perform Refund via Fiserv Gateway plugin. Please make sure that your hosting server is enabled with API server recommendation (Refer API Server Recommendations in this guide at bottom).

The screenshot shows the 'Configuration' page in Magento, specifically the 'API Configuration' section. The page has a sidebar with navigation links: DASHBOARD, SALES, PRODUCTS, CUSTOMERS, MARKETING, CONTENT, REPORTS, and STORES. The main content area is titled 'API Configuration' and includes a 'Save Config' button in the top right corner. A note at the top of the main area says 'Do not forget to click the "save config" button'. Below this, there is a section for 'Enter your FirstData API credentials to process different types of API transactions via FirstData Payment Gateway.' with a '[WEBSITE]' label. The form contains several fields: 'API username' with a '[WEBSITE]' label and a help icon; 'API password' with a '[WEBSITE]' label and a help icon; 'API certificate password' with a '[WEBSITE]' label and a help icon; 'API PEM file' with a 'Choose File' button, 'No file chosen' text, and a 'Delete File' button; 'API certificate PEM' with a 'Choose File' button, 'No file chosen' text, and a 'Delete File' button; and 'API certificate key' with a 'Choose File' button, 'No file chosen' text, and a 'Delete File' button. Each of these file upload fields also has a '[WEBSITE]' label.

- To issue an order refund in Magento, follow these steps:
  - In the **Magento Admin Panel**, go to **Sales**, and then select **Orders**.
  - In the order overview page, browse to the order you want to refund, and then click it.
  - In the **Order View** left-hand navigation sidebar, click **Invoices**.

<b>ORDER VIEW</b>									
Information		Select It... ▾		1 records found		20 ▾ per page		< 1 of 1 >	
Invoices									
Credit Memos									

<input type="checkbox"/>	Invoice ↓	Invoice Date	Order #	Order Date	Bill-to Name	Status	Amount	Action
<input type="checkbox"/>	000000022	Jun 21, 2018 11:59:03 AM	000000072	Jun 21, 2018 11:58:59 AM	Banjir K	Paid	\$630.00	<a href="#">View</a>

- In the invoice overview page for the selected order, click the order invoice you need to create a refund for.
- Click **Credit Memo** on the top-right corner of the page.




← Back	Send Email	Credit Memo	Hold	Ship	Reorder
--------	------------	-------------	------	------	---------

- In the **New Credit Memo for Invoice** page, scroll down to the **Refund Totals** pane.

<b>Refund Totals</b>	
Subtotal	\$600.00
Refund Shipping	<input type="text" value="30"/>
Adjustment Refund	<input type="text" value="0"/>
Adjustment Fee	<input type="text" value="0"/>
<b>Grand Total</b>	<b>\$630.00</b>
<input type="checkbox"/> Append Comments <input type="checkbox"/> Email Copy of Credit Memo	
<input type="button" value="Refund Offline"/> <input type="button" value="Refund"/>	

- In this pane you can define and issue a regular **Refund** or a **Refund Offline**.
  - **Refund**: this option triggers the IPG payments API to automatically execute a refund for the transaction.
  - **Refund Offline**: an offline refund does not trigger the IPG payments API. You need to take action and carry out the refund manually
- **Saving Plugin Configuration**: Click on the “Save Config” button to save the configuration.

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## Order Summary

Cart Subtotal ₹60.00

Shipping  
Flat Rate - Fixed ₹10.00

**Order Total ₹70.00**

2 Items in Cart

- You have successfully integrated the Fiserv Payment Gateway with Magento2.




### 3. Multi-language Support:

- You can download the Magento translations at <https://amasty.com/knowledge-base/add-magento-2-language-pack.html>
- Create a folder with the Locale code of the language as its name and unzip the language pack to this folder
- Run below commands in CLI,

```
cd <Your Magento2 Installation directory>.  
php bin/magento setup:upgrade php bin/magento  
setup:static-content:deploy [ locale_code] php  
bin/magento setup:static-content:deploy [locale_code]
```

- To translate the Fiserv plugin text, Navigate to **System>>Configuration**.
- Under **Locale Options**, change the Locale dropdown to your desired language. (The plugin currently supports English and Spanish)
- Save the configuration by clicking the “**Save Config**” button.
- Refresh the cache under **System>>Cache Management**.
- You can view the translated checkout page for the Fiserv plugin as shown below.

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2 Items in Cart

Check your host supports php\_fileinfo and curl extension. If not, please follow below instruction to enable it.

How to identify extension curl and fileinfo are installed in host?



- Add a new file to your website titled `phpinfo.php` and include the following code: `<? php  
phpinfo ();?>`
- View the following URL in your browser: **example.com/phpinfo.php** □ You should see the following in the page that appears:

#### To check for fileinfo extension

##### fileinfo

fileinfo support	enabled
version	1.0.5
libmagic	517

#### To check for curl extension

##### curl

<b>cURL</b> support	enabled
<b>cURL</b> Information	7.56.0
Age	3
Features	
AsynchDNS	Yes
CharConv	No
Debug	No

#### How to install curl extension in Linux server

- To install curl type below command in terminal  
`sudo apt-get install php5-curl`
- Edit `php.ini` file **nano**

**/etc/php5/apache2/php.ini**

- You will need to restart the server afterwards:  
`sudo service apache2 restart`

#### How to install curl extension in Windows server

- Add or Uncomment `extension=php_curl.dll` extension in `php.ini` file  
**extension=php\_curl.dll**
- You will need to restart the server verify it by executing `phpinfo.php`

#### How to install fileinfo extension in window server

This extension is enabled by default as of PHP 5.3.0 for lower version of PHP follow below steps.

- Add `php_fileinfo.dll` to the list of enabled extensions **extension=php\_fileinfo.dll**
- Download GNU file package for windows
- Get it from here: <http://gnuwin32.sourceforge.net/downloads/file-bin-zip.php>  
Extract the folder from the archive called `shared\file` which contains 4 magic files (`magic`, `magic.mgc`, `magic.mime`, `magic.mime.mgc`).

- Place these 4 files in a known place
- Add system environment variable MAGIC that points to the file called magic. For example if you placed magic files in folder called magic in **c:\php** that means that the proper path is **c:\php\magic\magic**
- Restart IIS server and verify it by running the phpinfo.php .

#### **How to install fileinfo extension in Linux server**

This extension is enabled by default as of PHP 5.3.0. For lower version of php version follow below steps.

- Edit php.ini file **nano /etc/php5/apache2/php.ini**
- Add php\_fileinfo.dll to the list of enabled extensions  
**extension=fileinfo.so**
- You will need to restart the server afterwards by running **sudo service apache2 restart.**
- Verify it by executing the phpinfo.php.