



Worldpay - Magento 2 Extension  
User Documentation  
Ver. 1.5.5 - December 2018

## 1. Change Log

| Release Version | Date         | Description   |
|-----------------|--------------|---|
| 1.2.2           | Oct 27, 2017 | <ul style="list-style-type: none"><li>• Direct Method</li><li>• Redirect Method</li><li>• MOTO Method</li><li>• Alternate Payment Methods</li><li>• Client Side Encryption (CSE)</li><li>• 3D Secure (3DS)</li><li>• Tokenization</li><li>• Saved Card</li><li>• Order Notification</li><li>• Merchant Profile Override</li><li>• Custom Payment Pages</li><li>• Order Cleanup</li><li>• Risk Guardian Data</li></ul> |
| 1.3.0           | Mar 6, 2018  | <ul style="list-style-type: none"><li>• Magento 2.2.2 Support</li><li>• PHP 7.1 Support</li><li>• 3DS Cookie Issue resolved</li><li>• By Default 3DS enabled.</li></ul>   |
| 1.4.0           | Mar 20, 2018 | <ul style="list-style-type: none"><li>• Worldpay Instant Purchase</li><li>• Worldpay Instant Purchase With 3DS Enabled</li><li>• BugFix : Payment Method Title From Admin configuration</li><li>• Configurable Payment Order Description</li></ul>  |
| 1.5.0           | Jun 25, 2018 | <ul style="list-style-type: none"><li>• Release phase 3 for Klarna</li></ul>  |
| 1.5.1           | Jul 17, 2018 | <ul style="list-style-type: none"><li>• Capture for Klarna resolved</li><li>• Minor fixes</li></ul>   |

|       |              |  |
|-------|--------------|--|
| 1.5.2 | Aug 20, 2018 | <ul style="list-style-type: none"><li>• Minor bug fixes</li></ul>  |
| 1.5.3 | Oct 9, 2018  | <ul style="list-style-type: none"><li>• Supporting Magento 2.2.5</li><li>• Klarna bug fixes</li><li>• Magento EQP validation</li></ul>   |
| 1.5.4 | Oct 10, 2018 | <ul style="list-style-type: none"><li>• Magento package validation fixes</li><li>• Missed payment method images fixes</li></ul>  |
| 1.5.5 | Dec 18, 2018 | <ul style="list-style-type: none"><li>• Auto Invoice generation issue in direct mode for Credit Card</li><li>• Checkout blocker issue - if order contains virtual products / no shipping address</li><li>• 3DS - empty saved card list issue</li><li>• Other minor fixes</li></ul> |

## 2. OVERVIEW

Magento is one of the leading Open Source ecommerce platforms in the market. Worldpay is a payment gateway provider that can be integrated with Magento to provide online payment service to end user.

To accept payment from customer using Worldpay payment gateway, Merchants, who are running Magento 2 based online store, would require a payment integration extension installed from Worldpay to integrate their Magento online store with Worldpay payment.

## 3. Prerequisites

Magento 2 or higher version application should be installed and configured properly.

## 4. Installation

Worldpay Extension is hosted at <https://github.com/Worldpay/Worldpay-Magento-CG>, To run below installation steps, access to repository is required.

### Composer Based Installation

For installation of extension using composer, Please follow below steps:

1. Run below code from command prompt at Magento installation root directory

**composer** config repositories.repo-name vcs

git@github.com:Worldpay/Worldpay-Magento2-CG.git

composer require sapient/module-worldpay

2. Run Setup Upgrade

php bin/magento setup:upgrade

3. Run Compilation

php bin/magento setup:di:compile

4. Finally clear cache

php bin/magento cache:clean

### Traditional Installation

For installation of extension using traditional non-composer way, Please follow below steps:

1. Download the extension zip file from <https://github.com/Worldpay/Worldpay-Magento-CG>
2. Unzip the file in a temporary directory
3. Please cross check if there is any code folder under app folder path Magento2Rootfolder/app
  - a. If exist please upload it to your code directory.
  - b. If there is no code folder please copy the extracted folder to app/code/Sapient/Worldpay folder.
4. Disable the cache under System >> Cache Management
5. Enter the following at the command line: php f bin/magento2 setup: upgrade

6. Clear the cache from command line: `php f bin/magento2 cache:clean` Flush the cache from command line: `php f bin/magento2 cache:flush`
- 7.

## 5. Configuration

After successful installation of extension , Please go to below Menu path to configure it.

**Stores->Configuration->Sales->Worldpay**

### Configuration

Search 2 admin

Store View: Default Config

Save Config

GENERAL

General Configuration

CATALOG

Credit Cards

CUSTOMERS

Alternative Payment Method

SALES

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Sales

Merchant Profile Configuration

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Order Cleanup

Tax

### General configuration

“General Configuration” Section contains global values for plugin. Please check snapshot of General configuration and detail :

#### General Configuration

|  |   |
|--|---|
| Enable Worldpay<br><small>[store view]</small>                   | Yes   |
| Environment Mode<br><small>[store view]</small>                  | Test Mode   |
| Test URL<br><small>[store view]</small>                          | https://secure-test.worldpay.com/jsp/merchant/xml/paymentService.js |
| Live URL<br><small>[store view]</small>                          |   |
| Merchant Code<br><small>[store view]</small>                     | XXXXXXXXXXXX  |
| XML Username<br><small>[store view]</small>                      | XXXXXXXXXXXX  |
| XML Password<br><small>[store view]</small>                      | *****   |
| Enable Dynamic 3D Secure Override<br><small>[store view]</small> | Yes   |

| Configuration                     | Description  |
|-----------------------------------|--|
| Enable Worldpay                   | If Set to “Yes” Worldpay payment method will be Available at checkout payment section  |
| Environment Mode                  | Payment gateway, Test & Live Mode, On Production it should be set to Live mode.  |
| Test URL                          | Worldpay Payment processing test URL   |
| Live URL                          | Worldpay Payment processing Live URL   |
| Merchant code                     | Global merchant code   |
| XML username                      | Global XML username  |
| XML Password                      | Global XML password  |
| Enable Dynamic 3D Secure Override | Only applicable for Card payment with Direct Integration mode , If enabled request will be passed to Worldpay with 3D secure parameter |
| Do 3D Secure authentication       | If enabled, 3DS supported card will be validated by card issuer.   |

|                               |   |
|-------------------------------|---|
| Enable Logging                | IF enabled , all request & response along with other debug information will be logged at Magento2Root/var/log/worldpay.log file   |
| Capture Invoice Automatically | If Set to YES : Invoice will be automatically created on Authorize response of worldpay and Capture request will be sent from worldpay.<br>If Set to NO: Invoice will not be created, until capture order notification is received. |
| Payment Method Selection      | It has two options :<br><b>Radio Button</b> : APMs and Card Types will displayed a Radio button at payment section<br><b>Dropdown</b> : APMs and Card Types will displayed as Dropdown at payment section                           |

## Credit Card

This section contains configuration specific to credit card payments. Please check snapshot and detail below:

### Credit Cards



|  |  |
|--|--|
| <b>Enabled</b><br>[store view]                         | Yes  |
| <b>Payment Methods</b><br>[store view]                 | <div> <div>American Express</div> <div>Visa</div> <div>MasterCard</div> <div>Carte Bancaire</div> <div>Carte Bleue</div> <div>Dankort</div> <div>Diners</div> <div>Discover</div> <div>Japanese Credit Bank</div> <div>Solo</div> </div> |
| <b>Title</b><br>[store view]                           | Credit Cards   |
| <b>Client Side Encryption Enabled</b><br>[store view]  | No   |
| <b>Public Key</b><br>[store view]                      |  |
| <b>Require CVC</b><br>[store view]                     | Yes  |
| <b>Integration Mode</b><br>[store view]                | Direct   |
| <b>Hosted Payment page Integration</b><br>[store view] | Full page  |
| <b>Save Card</b><br>[store view]                       | Yes  |

| Configuration          | Description   |
|------------------------|---|
| Enabled                | If Set to “Yes” Credit Card payment method will be Available at checkout payment section  |
| Payment Methods        | Mutli-Select Credit card type selections. Selected CC types will be available as Radio/Dropdown option to customer at payment method section.   |
| Title                  | Payment method title to be displayed at checkout payment section.   |
| Client Side encryption | If enabled, all card detail will be securely transferred to Worldpay in encrypted format.   |
| Public Key             | Only required if Client side encryption is enabled to encrypt card information securely.  |
| Require CVC            | If enabled CVC form field will be displayed to customer at card detail entry form.  |
| Integration Mode       | <p>Plugin supports two integration types for Credit Card :</p> <ol style="list-style-type: none"><li>1. Direct Integration Mode : Card information will be captured at Magento2 online store and passed to worldpay from server to server transfer in XML format. No card information will be saved by Worldpay plugin.</li><li>2. Redirect Integration Mode : User will be redirected to Worldpay payment page</li></ol> |



|                                 |  |
|---------------------------------|--|
|                                 | and card information will be captured at worldpay end.   |
| Hosted Payment Page Integration | <p>Only Applicable on Redirect Integration mode.</p> <ol style="list-style-type: none"><li>1. Full Page : User will be redirected to Worldpay payment page.</li><li>2. Iframe : User will remain on Magento2 online store, but worldpay payment page will be open in Iframe where customer can enter card information.</li></ol> |
| Save Card                       | If enabled, User will get option to save card detail. All Saved Cards can be managed at user My Account section.   |

### Alternative Payment Method

This section contains configuration specific to Alternative payment method. Only Redirect integration mode is available for alternative payment method.

Please check snapshot and detail below:

## Alternative Payment Method

**Enabled**  
[store view]

Yes

**Payment Methods**  
[store view]

- Union Pay
- IDEAL
- Qiwi
- Yandex.Money
- PayPal
- SoFort EU
- GiroPay
- Boleto Bancario
- AliPay
- SEPA (One off transactions)
- Klarna (Redirect)
- P24
- Mistercash/Bancontact

| Configuration   | Description  |
|-----------------|--|
| Enabled         | If Set to “Yes” Alternative payment method will be Available at checkout payment section                                     |
| Payment Methods | Mutli-Select APM selections. Selected APMs will be available as Radio/Dropdown option to customer at payment method section. |
| Title           | Payment method title to be displayed at checkout payment section.  |

## MOTO

This section contains configuration specific to MOTO. Worldpay Mail & Telephone Order integration allows Admin user to create order from Admin panel using Worldpay payment method. If enabled

MOTO Credit card direct , Redirect & Saved Card payment method integration will be available as in Magento admin create order interface.

Current version does not support integration of CSE, 3DS with Credit card for MOTO orders.

Merchant profile need to have Dynamic interaction type enabled at Worldpay to use MOTO orders.

Please check snapshot and detail below:

MOTO ⌵

**Enabled**  
[store view]

No ⌵

**Payment Methods**  
[store view]

American Express

Visa

MasterCard

Carte Bancaire

Carte Bleue

Dankort

Diners

Discover

Japanese Credit Bank

Solo

**Title**  
[store view]

Moto

| Configuration | Description  |
|---------------|--|
| Enabled       | If Set to “Yes” MOTO payment method will be Available at payment section of Admin order create |

|                 |  |
|-----------------|--|
| Payment Methods | Mutli-Select Credit Card selections. Selected credit cards will be available as Radio/Dropdown option to admin user at payment method section. |
| Title           | Payment method title to be displayed at payment section.   |

### Merchant Profile Override Configuration

Merchant can override global value set for merchant profile at payment method level. If no override is set for a payment method, global merchant profile will be used for all transactions.

Please check snapshot below

#### Merchant Profile Override Configuration



AMEX-SSL  
[store view]

  


Please enter Merchande code, XML Username, XML Password respectively.

VISA-SSL  
[store view]

  


### Custom Payment Page

Custom payment page configuration is used in redirect method to provide merchant specific page installation id while redirecting user to Hosted page of Worldpay.

#### Custom Payment Pages



Enabled  
[store view]

Installation Id  
[store view]

Hide address  
[store view]

## Order Cleanup

Order cleanup section enables merchant to configure auto cleanup of pending orders. Merchant can configure time for cancellation of order with specific payment methods. A cron will pick such order and based on configuration, attempts to cancel such orders.

### Order Cleanup

Enabled  
[store view]

Yes

Clean Order With Status  
[store view]

-- Please Select --  
Canceled  
Closed  
Complete  
Suspected Fraud  
On Hold  
Payment Review  
PayPal Canceled Reversal  
PayPal Reversed  
Pending

Union pay  
[global]

24

Ideal  
[global]

24

Paypal express  
[global]

24

Master card  
[global]

24

### Configuration

### Description

|                                      |  |
|--------------------------------------|--|
| Enabled                              | If Set to “Yes” And Cron is correctly configured at server. Order cleanup will auto cancel orders as per configurations. |
| Clean Order with Status              | Mutli-Select Order status selections. Selected Orders will be fetched by order cleanup cron for cancellation.            |
| Cancellation Time per payment method | Time in hour.  |

## 6. Invoice & Refund

Worldpay Magento 2 plugin allows invoice and refund with real time data synchronization with Worldpay payment gateway from Magento order manager.

### Invoice

If Auto Create Invoice is set to “Yes” in configuration, Invoice will be generated as soon as Worldpay authorize response is received by Magento. Upon invoice creation, Order will be moved to processing status.

If Auto Create Invoice is set to “No” in configuration, No invoice will be created until ‘Capture’ Order notification is received. Order will remain in pending status until capture notification.

On capture notification received by Magento, Invoice will be generated and order will be moved to processing status, regardless of Auto create invoice setting.

### Refund

Merchant can initiate full or partial refund from Magento2 Order manager by creating credit memo for invoice generated orders.

If invoice is generated and transaction status of order is in ‘Captured’ State. Online refund option will be available in credit memo create interface of Magento.

On click of “Refund” button, Credit memo will be generated and refund request will be initiated to Worldpay.

## 7. Order Notification

Plugin needs order notification to be setup to work properly. Order notification are transaction status updates pushed by worldpay to Magento2 store.

To receive Order notification , Below Order notification url is to be set in Worldpay merchant profile :

<https://<brand url>/worldpay/notification/index>

Where transactions are processed Asynchronously you may notice a detail of the transaction details being presented within Magento Order Details. Shortly after Magento receives the notification from Worldpay it will update the details to reflect the content.

## 8. Customisations

### Change Order Code Format

The order code is created by the plugin and must be unique. It is possible to change the Order Code format by following these steps:

- Order code format can be changed by editing  
:sapient\module-worldpay\Model\PaymentMethods\AbstractMethod.php.
- In this file there is a function called `_generateOrderCode($quote)`.
- Currently the order code format is Magento reserved order id - current time (ex: 000001030-1515391128).

### Error Code messaging

Error code message are added in code and It is possible to change them by adding magento default translation CSV functionality.

- To add translation csv file in magento2, add a folder named: "i18n" inside module's folder Then create a csv file with name of language code.

for example:

for english (United state) => en\_US.csv

french (canada)=>fr\_CA.csv

- Inside csv file you just need to add words which you want to translate, in following manner:  
“<word in english language>”, “<word in language to convert>”

for example:

"Add New Template", "Ajouter un nouveau modèle"

"Transactional Emails", "Emails transactionnels"

Back, Arrière

Reset, Réinitialiser

## How to add a new payment method

It is possible to add a new payment method by...

- First, need to update etc/config.xml file, add required payment method information.
- Update etc/paymentmethods.xml file and mention the country which new payment method supports.
- Update etc/adminhtml/system.xml file to add new payment method settings to display/accessible it for admin configuration part.
- Add the new payment method front end code to display it in payment methods section of checkout process.
- Create new payment method file in Model/PaymentMethods/ folder to call the payment functionalities (refer: CreditCards.php, Moto.php, AlternativePaymentMethods.php).
- Create a authorisation service file in Model/Authorisation/ folder based on payment method type.
- Authorisation service is responsible for collecting payment data, Worldpay payment request and handling Worldpay payment response.

## How to display Images/Icons as the payment method

Payment method image/Icons are displayed according to the image stored in \sapient\module-worldpay\view\frontend\web\images\cc. to add/update icons need to paste the required icon/image file in this folder by naming it exactly as payment type code.

For example: to update Mastercard icon add image file and name it as “ecmc-ssl”.

## 9. Reporting a bug

Please do this via github



## 10. Instant Purchase

Instant Purchase feature is one click checkout button placed on product detail pages. On click of this button, Magento places order using the default shipping, billing address, and last stored payment method from logged in user. Once the order is placed, an order confirmation message appears in the notification area.

Worldpay extension for Magento 2 supports Instant purchase if logged in customer has a default billing, shipping and saved card .

### Prerequisites To display Instant Purchase Button:

- Instant purchase enabled for a store at Store / Configurations / Sales / Sales / Instant Purchase
- Customer is logged in
- Customer has default shipping and billing address defined.
- Customer has valid stored Credit Card with Worldpay Payment.

### How Instant Purchase Work with Worldpay

- Instant purchase works as a new payment method from backend called worldpay\_cc\_vault.
- config.xml contains new worldpay\_cc\_vault payment method and its title, payment\_action, instant purchase availability, token formatter and additional information.
- Once customer place order with “Save This Card” option, Card details will be saved in Magento vault by Worldpay extension.
- After saving the card details in Vault, Customer session data loaded with saved card details for Instant Purchase.
- On product details page Instant purchase Button displayed by checking the default shipping, billing address and cheapest shipping methods availability.
- On clicking of “Instant Purchase” button, Order is placed with Magento 2.2 Instant purchase module and uses Worldpay payment method (worldpay\_cc\_vault) as payment gateway.

Please note Instant purchase Integration is not enabled by default. If the payment method meets all the requirements listed, you can enable Instant Purchase

**Stores->Settings->configuration->Sales->sales->Instant Purchase.**

Above setting Enable Instant purchase globally, for Worldpay module specific you need to enable from **Stores->Settings->configuration->Sales->Worldpay->Credit Cards->Enable Instant Purchase.**

### Instant purchase with 3DS

Worldpay support for Instant purchase checkout even with 3ds is enabled for a card, It is possible by suppressing 3ds for only IPC transactions.

## 11. References

<http://support.worldpay.com/support/xmlapi/content/home.htm>

<https://github.com/Worldpay/Worldpay-Magento2-CG/releases>