

Installation Manual for Opayo Magento

This manual describes the installation and usage of the Opayo extension for Magento.

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1 Introduction

This manual explains the installation, configuration and usage of the payment module for Magento and Opayo.

Before beginning with the installation, please make sure that you are in possession of all necessary data:

- You should have received a vendor name, a user name as well as a password from Opayo for the live and test platform
- Magento payment module by sellxed.com/shop
- Access data to your server and shop

In case you don't yet have a contract with Opayo, you can gladly acquire it directly through us.

Note that you must use at least PHP version 5.6 for our plugins. PHP 8 or higher is currently not supported.

1.1 Procedure of the Installation

In this document you will find all important information for the installation of the module. It is important that you strictly follow the checklist. Only by doing so, can a secure usage in correspondence with all security regulations be guaranteed.

1. Configuration of the test administration interface of Opayo. You will find the test platform under <https://test.sagepay.com/mysagepay/loginpage.msp>
2. Configuration of the basic settings of the payment module
3. Configuration of the payment methods
4. Carrying out of a test purchase by means of the attached [test data](#) at the end of this document
5. If the test was successful, you can request the going live of your account by Opayo. With the obtained access data you can log into the live environment. The live environment can be found under the following URL: <https://live.sagepay.com/mysagepay/loginpage.msp>

Installation Service

Our payment plugins should have per default the correct settings for most of our customers' preferences. That means once you have entered the required credentials in the plugin configuration to connect your account to your website, the plugin should be fully operational. Should you be willing to receive detailed information on a setting you do not know, you may contact our support team who will be able to assist you further.

Our support team is at your disposal during regular business hours at: <http://www.sellxed.com/support>. Furthermore, you have the option of ordering our installation service. We will make sure the plugin is installed correctly in your shop: <http://www.sellxed.com/shop/de/integration-und-installation.html>

.htaccess Directory Protection

In order to test the module, any kind of directory protection or IP blocking on your server must be deactivated. This is crucial as otherwise the payment feedback of Opayo might not get through to the shop.

1.2 System Requirements

In general, the plugin has the same system requirements as Magento. Below you can find the most important requirements of the plugin:

- PHP Version: 5.4.x or higher
- Magento: 1.7.x or higher
- OpenSSL: Current version with support for TLS 1.2 or higher.
- fsockopen: The PHP function fsockopen must be enabled. The plugin must be able to connect to external systems over the Internet.
- PHP Functions: All common PHP functions must be enabled.

2 Configuration Opayo - Backend

For the configuration log into Opayo in the Administration Tool (MySagePay):

- Test Environment: <https://test.sagepay.com/mysagepay/loginpage.msp>
- Live Environment: <https://live.sagepay.com/mysagepay/loginpage.msp>

The settings carried out on the following pages are a precondition for the later [configuration of the main module](#).

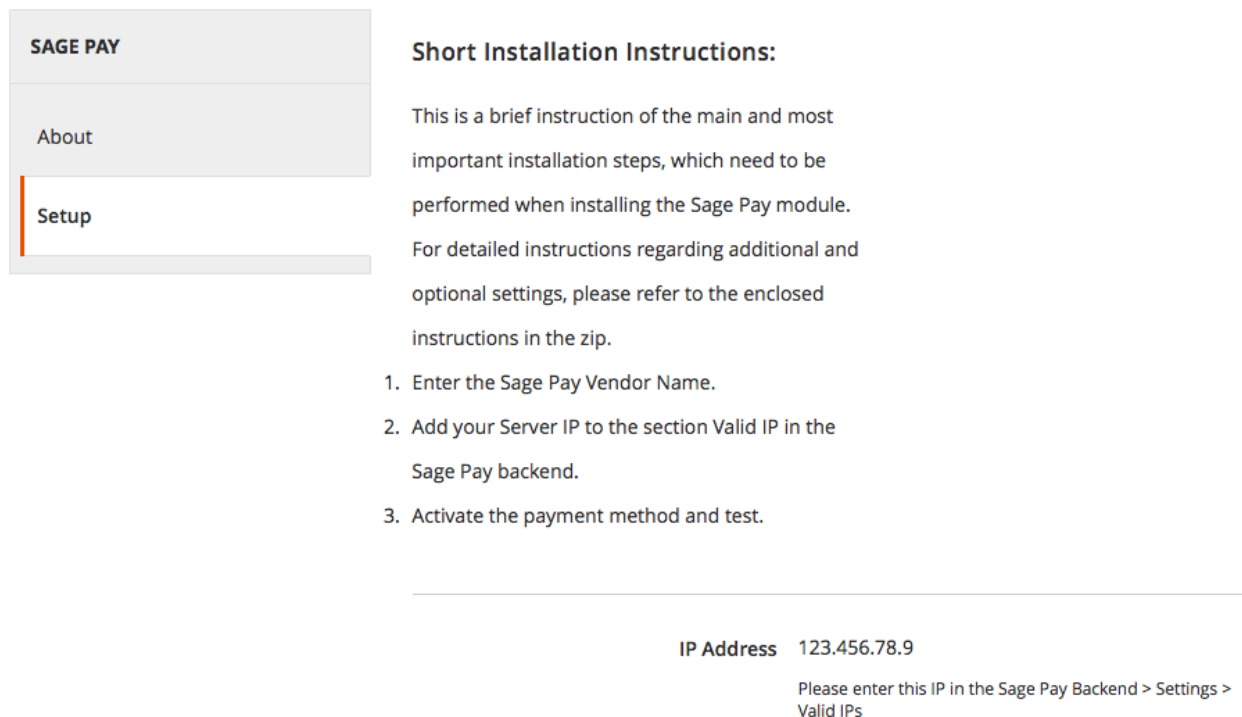
2.1 Valid IPs

In order for your shop to be able to access the payment page of SagePay, the IP of your server has to be saved as a valid IP with SagePay.

2.1.1 Identify the IP Address of your Shop

In a first step you must find out the IP address of your shop. We display the IP on the about page of the plugin directly in your store.

Alternatively, request your IP directly with the host of your website.



SAGE PAY

- About
- Setup

Short Installation Instructions:

This is a brief instruction of the main and most important installation steps, which need to be performed when installing the Sage Pay module. For detailed instructions regarding additional and optional settings, please refer to the enclosed instructions in the zip.

1. Enter the Sage Pay Vendor Name.
2. Add your Server IP to the section Valid IP in the Sage Pay backend.
3. Activate the payment method and test.

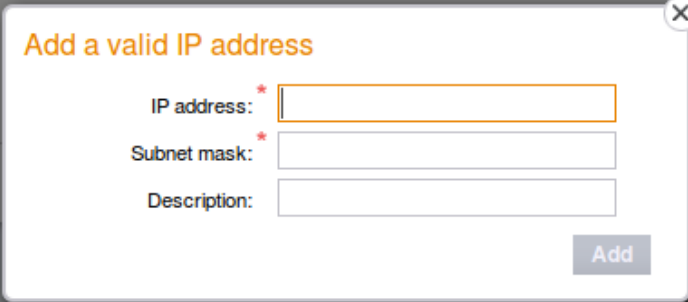
IP Address 123.456.78.9

Please enter this IP in the Sage Pay Backend > Settings > Valid IPs

Figure 2.1: You find your IP in the about section of the plugin (here a screenshot inside Magento).

2.1.2 Entering the Valid IP

Click on add and enter the above identified IP address. Enter **255.255.255.000** for the subnet mask.



The image shows a modal dialog box with a white background and a grey border. The title is "Add a valid IP address" in orange text. There is a close button (X) in the top right corner. The form contains three input fields: "IP address:" with a red asterisk, "Subnet mask:" with a red asterisk, and "Description:". The "IP address:" field has an orange border. A grey "Add" button is located at the bottom right of the dialog.

Figure 2.1: Adding an IP

3 Module Installation and Update in the Magento Shop

3.1 Installation

At this time you should already be in possession of the module. Should this not be the case, you can download the necessary files in your customer account in the [sellxed shop](#) (Menu "My Downloads Downloads"). In order to install the module in your shop, please carry out the following steps:

1. Download the plugin. The download can be found in your sellxed.com account under "My Downloads".
2. Unzip the archive you have just downloaded.
3. In the unzipped folder navigate to the folder "files"
4. For some shops there are different versions of the plugin provided. If this is the case open the folder which corresponds to your shop version.
5. Using your preferred FTP client upload **entire content** of this folder into the root directory of your shop. For some shops there is a specific folder containing the plugins. If that is the case upload the plugin into this folder. Make sure that the folders aren't replaced but merely merged.
6. If you haven't yet done so, log back into your shop.

In the following you will find the installation manual for Magento 1 as well as Magento 2

3.1.1 Magento 1

Compiler Cache / Caching

Before you start the installation or after doing an update of the module, please make sure, that the compiler cache is disabled. Also make sure that you cleared the cache otherwise it could be that the settings page is not visible.

1. Create a back-up of your shop.
2. Extract the content of the ZIP file.
3. Copy the **entire content** of the folder "files" into the main directory of the server of your shop respectively to the folder where the plugins are copied normally. In order to do so, use your usual ftp program. Make sure that the folders aren't replaced but merely merged.

3.1.2 Magento 2

Im Folgenden werden die Schritte für die Installation und das Update der Extensions erklärt.

3.1.2.1 Installations Requirements

Bitte beachten Sie, folgende Voraussetzungen sind für den Betrieb von Magento 2 zwingend zu erfüllen:

1. System requirements von Magento (<http://devdocs.magento.com/guides/v2.0/install-gde/system-requirements.html>)
2. Der Cron Job muss korrekt eingerichtet sein, sonst können keine Extensions installiert werden. Weitere Informationen finden Sie hier: <http://devdocs.magento.com/guides/v2.0/config-guide/cli/config-cli-subcommands-cron.html>

3.1.2.2 Installation

For the installation of the plugin in your Magento 2 store please follow these steps:

1. Readiness Check

Before uploading the plugin it is necessary to do the Readiness Check for Magento 2

1. Save [this script](#) as cw-setup.php on your computer.
2. Upload this cw-setup.php Script into the root directory of your Magento 2 installation.
3. Access your server via SSH and run this command: `php cw-setup.php`
4. The script will present you with additional commands which you need to execute.

About the cw-setup.php script

The provided script generates a set of commands which should be executed to clean up Magento 2. The script itself doesn't execute anything. It only generates the necessary commands.

2. Upload

Upload the content of the folder **files_2** into the root directory of your server. Execute the commands provided by the cw-setup.php script again.

3.2 Updates and Upgrades

You have direct and unlimited access to updates and upgrades during the duration of your support contract. In order to receive constant information about available updates we ask you to subscribe to our RSS feed that we publish for your module.

More information regarding the subscription of this RSS feed can be found under: http://www.sellxed.com/en/updates_upgrades.

We only recommend an update if something doesn't work in your shop, if you want to use new feature or if there is a necessary security update.

3.2.1 Update Checklist

We ask you to strictly comply with the checklist below when doing an update:

1. Always do a backup for your database and your files in your shop
2. Use always a test system to test the update process.
3. Wait until all the files are copied to the shop, clear the cache if there is one in your shop and then visit the configuration page of the main module so that the update process will be initialized.

Do not do updates directly in the live environment

Please test the update procedure first in your test shop. Our support team is able and willing to help you if you experience problems with the update process. However, if you decide to perform the update directly in your live shop there is the possibility of a downtime of the shop of more than two days depending on the availability of our support if you do not want to book our [complementary support](#).

Depending on the version it could be that the database has to be migrated. We recommend you therefore, to perform the updates in times when the shop is not visited too frequently by your customers.

3.2.2 Update Instructions

Please always read the update instruction. Those instructions can be found in the changelog. If there are no special remarks, you can proceed by just overwriting the files in your system.

3.2.2.1 Magento 1

1. Download the newest version of the plugin. The download is available in your sellxed.com account under "My Downloads".
2. Extract the ZIP file.
3. Upload the folder **files_1** into the root directory of your shop.
4. Clear the Magento cache

3.2.2.2 Magento 2

1. Download the newest version of the plugin. The download is available in your sellxed.com account under "My Downloads".
2. Extract the ZIP file.
3. Upload the folder **files_2** into the root directory of your shop.
4. Clear the Magento cache

3.3 Database Migration

This section describes how you can run the database migration script

This only needs to be done if your Magento installation shows error messages regarding missing tables or columns in the database.

3.3.1 Magento 1

Clear the Magento cache

If this does not resolve the issue, remove the entry `sagepaycw_setup` from the `core_resource` table and clear the cache again.

3.3.2 Magento 2

From the command line run the following command:

```
php bin/magento setup:upgrade
```

4 Module Configuration in the Magento Shop

The configuration consists of two steps. The first step is the configuration of the main module with all the basic settings (cf. [Configuration of the Main Module](#)). During the second step you can then carry out individual configurations for each [payment method](#). This allows for full flexibility and perfect adaptation to your processes.

Create backups!

Please create a backup of the main directory of your shop. In case of problems you will then always be able to return your shop to its original state.

We furthermore recommend testing the integration on a test system. Complications may arise with third party modules installed by you. In case of questions, our support is gladly at your disposal.

4.1 Configuration of the Main Module

4.1.1 Magento 1

The settings for the main module can be found under **System > Configuration > Opayo**. Enter the various options, some of which you have already specified in the configuration with Opayo. Information on the functionalities as well as the impact of the individual settings can be found directly by the option.

The field "Time-Out for pending Payments" defines after how many minutes the order status should switch from pending to cancelled (0 means that nothing should be changed) if no successful feedback concerning the payment is received from Opayo. This might occur e.g. if the customer has closed his or her browser. Further information on this topic can be found under [Order Status](#).

4.1.2 Magento 2

You will find the settings of the main module via **Stores > Configuration > Sales > Opayo > General**

Fill in the fields according to the configuration of Opayo or with the data which you received directly from Opayo. You can find more exact explanations regarding each option in the help text by the input boxes.

Shop



Kunden Alias Management	<input type="text" value="Nein"/>	[STORE VIEW]
	Sie können Ihren Kunden gestatten ihre Aliasse auf ihrem Konto zu verwalten/löschen.	
Benachrichtigung abwarten	<input type="text" value="Nein"/>	[WEBSITE]
	Es kann in einigen Fällen ein paar Sekunden dauern bis die Transaktion erfolgreich genehmigt wird. Wenn diese Option aktiviert ist, wird die Benachrichtigung erwartet.	

General



Betriebsmodus	<input type="text" value="Test Modus"/>	[STORE VIEW]
	If the test mode is selected the test account id is used. Otherwise the configured live account id is used.	
Live account ID	<input type="text"/>	[STORE VIEW]
	The live account ID as given by the Salesway .	
Live API password	<input type="text"/>	[STORE VIEW]
	The live API password as given by Salesway .	
Test Account ID	<input type="text"/>	[STORE VIEW]
	The test account ID as given by the Salesway . Generic test account: 401860-17795278	
Test API password	<input type="text"/>	[STORE VIEW]
	The test API password as given by Salesway . Password for generic test account: 8e7Yn5yk	
Liability Shift Behavior	<input type="text" value="Mark transactions without liability shift as uncertain"/>	[STORE VIEW]
	If no liability shift is given by a transaction, should the transaction be marked as uncertain?	
Bestell-Präfix	<input type="text"/>	[STORE VIEW]
	Here you can insert an order prefix. The prefix allows you to change the order number that is transmitted to Salesway . The prefix must contain the tag {id}. It will then be replaced by the order number (e.g. name_{id}).	

Figure 4.1: Magento 2: Configuration of the basic module. Please note, that this is an example and the settings can differ.

4.2 Configuration of the Payment Method

4.2.1 Magento 1

After having successfully installed the main module, you will find the individual payment modules under System > Configuration > Payment Methods. You can save individual settings for each payment method and thereby optimally adapt the payment methods to your existing processes. The most central options are described in more detail further below.

4.2.1.1 Direct Capturing of Invoices

The "Invoice Creation" specifies if invoices should be captured directly or not. Captured invoices can no longer be modified. If you wish to be able to modify the ordered article for debiting, please set this option to "Deferred".

4.2.2 Magento 2

After having successfully configured the main module, you will find the settings for each payment method in your shop via Stores > Sales > Payment Methods. For each payment method you can change the settings individually to optimize the payment processing in your shop.

4.2.2.1 Accounting

For each payment method you need to choose whether you want to register directly or delayed. A delayed booking only reserves the amount. Therefore it is important that you follow the instructions for such transactions as listed below. Reservations are usually only valid for a few days so we recommend to register directly. The delayed booking isn't available for every payment method.

4.2.2.2 Authorization Method

For some payment methods you can choose between different authorization methods. The authorization method determines how the payment form is presented in your shop. Please note that for some authorization methods with credit cards there are extended PCI requirements. (<https://www.sellxed.com/en/blog/pci-300-changes>).

4.3 Direct Capturing of Transactions

The option "Capture" allows you to specify if you wish to debit payments directly or if you first wish to authorise them and then debit the payment at a later point.

Depending on your acquiring contract, a reservation is only guaranteed for a specific period of time. Should you fail to debit the payment within that period, the authorisation may therefore no longer be guaranteed. Further information on this process can be found below.

Different settings between Opayo and the module

It may be that settings saved in the payment modules overwrite settings saved in Opayo.

4.4 Uncertain Status

You can specifically label orders for which the money is not guaranteed to be received. This allows you to manually control the order before shipment.

4.4.1 Setting the order state

For each payment method you may select in which state the order should be set to depending on the booking state. This is the initial state of the order.

4.5 Optional: Validation

Note: It can be that this option is not visible in your module. In this case just ignore this section.

With the option 'Validation' you can define the moment when the payment method should be made visible to the customer during the checkout process. This setting is relevant for modules where the usage depends on the customer's compliance with specific preconditions. For example, if a solvency check has to be carried out or if the payment method is only available in certain countries. In order for the credit check or address validation to also work with European characters, the charset of the "Blowfish mode" must be set to "UTF-8" for certain PSP settings.

You have the choice between these options:

- **Validation before the selection of the payment method:** A validation verification is carried out before the customer selects the payment method. If the customer does not fulfill the requirements, the payment method is not displayed
- **Validation after selection of the payment method:** The verification of the compliance occurs after the selection of the payment method and before the confirmation of the order
- **During the authorisation:** The validation verification is carried out by Opayo during the authorisation process. The payment method is displayed in any case

4.5.1 Usage of the Integrated Multishop Functionality of Magento

The payment module supports the multishop feature of Magento. No further modifications are necessary. The module automatically recognises the shop the order belongs to. In order for the multishop functionality to work, it is, however, necessary that the individual sub-shops within Magento have been configured correctly.

5 Settings / Configuration of Payment Methods

5.1 General Information About the Payment Methods

The plugin contains the most common payment methods. In case a desired payment method is not included per default, please contact us directly.

In order to be able to use a payment method, it must be activated in your account with Opayo as well as in your shop. Information about the configuration of the payment methods can be found further above.

Below you can find important information for specific payment methods that deviate from the standard process.

5.2 Information on Payment Status

For each payment method you can define an initial payment status (status for authorized payments etc.). You hereby define the payment status for each state depending on the processing type of the order (captured, authorized, etc.). It's the initial status which the order assumes. Depending on the mutation carried out by you, the status can change.

Important info regarding Order Status

Never set the status to **Pending Opayo** or any similar pending status which is implemented by the module.

5.2.1 Order status "pending" / imminent payment (or similar)

Orders with the status 'pending Opayo' are pending orders. Orders are set to that status if a customer is redirected in order to pay but hasn't returned successfully or the feedback hasn't reached your shop yet (Customer closed window on the payment page and didn't complete payment). Depending on the payment method these orders will automatically be transformed into cancelled orders and the inventory will be cleared (so long as the Cronjob is activated). How long this takes depends on the characteristics of the payment method and cannot be configured.

If you have a lot of pending orders it usually means that the notifications from your webserver to Opayo are being blocked. In this case check the settings of your firewall and ask the Hoster to activate the IPs and User Agents of Opayo.

5.2.2 Order status "cancelled"

Orders with the status "cancelled" have either been set to that status automatically due to a timeout, as described above, or have been cancelled directly by the customer.

5.3 Opayo Authorization methods

Payment Page (Server) and iFrame (Server with iFrame) are the authorization methods which do not require for your shop a PCI-certificate. Please check our product description page for a real time overview of the payment methods that support the specific authorization method you are interested in. If you are PCI-certified you can feel free to activate and configure the authorization method Server Authorization (Direct). This is an integration which requires a PCI certification. It is therefore crucial that you do not integrate this authorization method if you aren't PCI-certified.

5.3.1 Selection of the Authorisation Method - National Payment Methods

You have the choice between integration via InFrame or via Payment Page. In the case of national payment methods such as ELV, Sofortüberweisung, etc., you must use Payment Page as Authorisation Method.

5.3.2 Fraud Recognition Rules

You have the possibility of filtering orders based on certain criteria and then have the order be labelled by the system. You can select a combination of rules which - if the criteria are fulfilled cumulatively - will lead to the order being moved into a pending status for manual verification.

<p>Address check result</p>	<div data-bbox="608 241 1168 566"> <ul style="list-style-type: none"> No address or no post code was provided Address or post code were not checked The address or post code do not match </div> <p data-bbox="608 571 1141 705"> ▲ During the checkout the address and post code are checked against the linked data with the credit card. The selected outcomes are threaded as uncertain transactions. </p>	<p>[STORE VIEW]</p>
<p>CV2 check result</p>	<div data-bbox="608 728 1168 1052"> <ul style="list-style-type: none"> No CV2 code was provided CV2 code was not checked CV2 not matched </div> <p data-bbox="608 1057 1141 1153"> ▲ During the checkout the CV2 code is checked. The selected outcomes are treated as uncertain transactions. </p>	<p>[STORE VIEW]</p>
<p>Address check result</p>	<div data-bbox="608 1176 1168 1500"> <ul style="list-style-type: none"> 3D secure authentication failed The 3D secure check was disabled for the transa The card does not have 3D secure </div> <p data-bbox="608 1505 1141 1601"> ▲ During the authorization of the payment a 3D secure check may be done. The selected outcomes are treated as uncertain transactions. </p>	<p>[STORE VIEW]</p>
<p>Fraud check result</p>	<div data-bbox="608 1624 1168 1948"> <ul style="list-style-type: none"> ReD recommends rejecting the transaction. No fraud check was done </div> <p data-bbox="608 1953 1141 1982"> ▲ During the authorization of the payment a fraud check </p>	<p>[STORE VIEW]</p>

Figure 5.1: Fraud Rules Configuration.

5.4 Opayo PayPal

You have the possibility of processing PayPal via Opayo. In order to do so, the payment method must be activated in your account.

Please follow the instructions of the installation guides of Opayo in order to configure the module. You will find these in the administration interface (MySagePay) under the tab 'Payment Methods'.

6 The Module in Action

Below you will find an overview of the most important features in the daily usage of the Opayo module.

6.1 Capturing / Cancelling of Orders

6.1.1 Magento 1

Please note:

The transaction management between your shop and Opayo is not synchronised. If you capture payments with Opayo, the status in the shop will not be updated and a second capturing in the shop is not possible.

6.1.1.1 Case 1: Invoice Capturing Directly After the Order

In the following, the process is explained for the case that you have chosen to directly create the invoice after having placed the order and only authorise payments - not capture them directly - (further information on the configuration can be found under [Creating the Invoice](#)).

In order to capture the order, open the invoice and click "capture". If you click "Cancel", the authorisation will be cancelled.

6.1.1.2 Case 2: Deferred Invoice Capturing

In case you have chosen the deferred invoice creation, you first have to create the invoice by clicking on the button "Invoice". Select "Capture online" below the total amount and then click on "capture invoice". The invoice has now been captured.

6.1.1.3 Cancel of orders/transactions

In order to cancel a transaction you first have to open the invoice and click on the cancel button. After that open the order and click on cancel here again. This will send the cancel of the order to Opayo. Please note that you need to cancel the invoice and the order.

6.1.2 Magento 2

6.1.2.1 Capture Bug in Magento (v. 2.0.0)

In version 2.0.0 of Magento there is a bug. It could be that invoices cannot be captured. Please make the following adjustments in the file `/vendor/magento/module-sales/Controller/Adminhtml/Order/Invoice/Capture.php`:

1. Delete the lines in the picture bellow which begin with a - .

2. Add the lines which has been marked with a + .

Here you can find the codes to be inserted in the form of a text:

```
+ )->addComment( __('The credit memo has been created automatically.'));
```

Method: execute()

Diff:

```

-     try {
-         $invoiceManagement = $this->_objectManager->get('Magento\Sales\Api\InvoiceManagementInterface');
-         $invoiceManagement->setCapture($invoice->getEntityId());
+         $invoice->capture();
+         $invoice->getOrder()->setIsInProcess(true);

```

Figure 6.1: Opening the Invoice

6.1.2.2 Performing Captures

Please note

The transaction management between Opayo and your shop isn't synchronized. When you capture the payments at Opayo , the status is not adjusted and a second capture isn't possible in your shop.

In the configuration of the payment method you can decide whether the invoice should be captured after having been created or if only the payment is authorized. You also decide if you already want to create an invoice. If you create an invoice you can't make any adjustments for the capture.

In order to capture invoices please take the following steps:

1. Open the order and create an invoice.
2. If you have set the Invoice Settlement to deferred you can still make adjustments to the invoice.
3. Click on Capture Online.

Invoice Settlement	Deferred settlement ▼	[WEBSITE]
	Choose settlement after order in case you want an invoice to be created with your order. The state of the invoice will set according to your capture status.	
Customer Address	No address is sent ▼	[STORE VIEW]
	Should the customer address be sent?	
Capturing	Deferred ▼	[STORE VIEW]
	Should the amount be captured automatically after the order (direct) or should the amount only be reserved (deferred)?	
Authorisation Method	Payment Page ▼	[STORE VIEW]
	Select the authorisation method to use in order to process this payment method.	
Alias Manager	Inactive ▼	[STORE VIEW]
	The alias manager allows the customer to select from a credit card previously stored.	

Figure 6.1: Capture options

6.1.2.3 Cancelling / Voiding Orders

In order to issue a cancellation of the payment you must use the "Void" button. If you wish to use the "Cancel" button you must cancel the payment in the Opayo backend portal.

6.2 Place Orders in the backend of Magento

6.2.1 Magneto 1

With the Magento payment module you can place orders and capture the payment directly in the shop; so called Mail Order / Telephone Order (MOTO).

1. Go to the order overview and click on "Create New Order"
2. The usual window for the creation of orders will be opened. Select the customer in question, the item and the address
3. Select the preferred payment method and click on "Submit Order".
4. Depending on the authorisation method that you have saved for the selected payment method, you will either be redirected to the Payment Page of Opayo or the mask for the credit card will appear such as in the image below. Enter the credit card data of the customer.

Mail order/telephone order authorization

Card holder name *
Please enter the card holder's name.

Card number *
Please enter your card number

Card expiration date *
Select the expiry date of your card

CVC Code *
Please enter the CVC code from your card. You can find the code on the back of the card

 Continue

Figure 6.1: MoTo Transactions in Magento

6.2.2 Magento 2

With the Magento payment module you can trigger orders directly from your shop, so called Mail Order / Telephone Order (MOTO).

1. Go to the overview of the order (Sales > Orders) and click on "Create New Order" at the top right.
2. The familiar window to create an order will open. Choose the desired customer, article and address.
3. In the payment method box, choose the desired payment method and click on "Finalize order".
4. After that you will be redirected either to the Payment Page of Opayo or you will be asked to enter your payment information in the shop, depending on your settings.

If an alias of the customer exists, you can alternatively use that for the order.

6.3 Refunds

6.3.1 Magento 1

You can refund already captured transactions and automatically transmit them to Opayo. In order to do so, open the invoice of the captured order. By clicking on "Credit Memo" the window for refunds is opened. Enter the amount you wish to refund. By clicking on "Refund" the refund is transmitted to Opayo.

Below you find a step-by-step guide including screenshots:

Order View Order # 200000003 | 17.04.2014 16:40:42 Back Edit Send Email Credit Memo Hold Ship Reorder

Information Page 1 of 1 pages | View 20 per page | Total 1 records found Reset Filter Search

Invoice #	Bill to Name	Invoice Date	Status	Betrag
200000003	Thomas Lueth	17.04.2014 16:41:41	Paid	20,99 €

Figure 6.1: 1. open the invoice

Invoice #100000026 | Paid | 23.04.2014 18:52:08 (the invoice email is not sent) Back Send Email Credit Memo Print

Order # 100000043 (the order confirmation email was sent)		Account Information	
Order Date	23.04.2014 18:51:23	Customer Name	Test Test
Order Status	Processing	Email	info@customweb.com
Purchased From	Main Website Main Store English	Customer Group	General

Figure 6.1: 2. click on credit memo - Important - open the invoice first!.

Refund Totals

Subtotal	156,00 €
Refund Shipping	<input type="text" value="5"/>
Adjustment Refund	<input type="text" value="0"/>
Adjustment Fee	<input type="text" value="0"/>
Grand Total	161,00 €

Append Comments
 Email Copy of Credit Memo

Figure 6.1: 3. Adjust the refunding amount (see more info below [Refunds Based on Quantity](#))

Refund Totals

Subtotal	156,00 €
Refund Shipping	<input type="text" value="5"/>
Adjustment Refund	<input type="text" value="0"/>
Adjustment Fee	<input type="text" value="0"/>
Grand Total	161,00 €

Append Comments
 Email Copy of Credit Memo

Figure 6.1: 4. To process the refund click on Refund.

✔ The credit memo has been created.

Order # 100000041 | 23.04.2014 18:26:16 Back Send Email Reorder

Order # 100000041 (the order confirmation email was sent)		Account Information	
Order Date	23.04.2014 18:26:16	Customer Name	Test Test
Order Status	Closed	Email	info@customweb.com
Purchased From	Main Website Main Store English	Customer Group	General
Placed from IP	160.85.155.47		

Figure 6.1: Wait for the confirmation of the refund.

6.3.1.1 Refunds Based on Quantity

You can make refunds based on product quantity. In order to do so, open the credit memo window and enter the amount of products you wish to refund to your customer's card

You can carry out as many individual refunds as you wish until you have reached the quantity of the original order. The status of the order then automatically switches to **complete**.

Credit Memo #	Bill to Name	Created At	Status	Refunded
200000001	Leandra Simitovic	02.12.2013 16:42:10	Refunded	35,00 €
200000002	Leandra Simitovic	02.12.2013 16:47:03	Refunded	146,00 €

Figure 6.1: Overview of all Refunds

6.3.1.2 Refunding of Any Amount

As each position of the order needs to be transmitted to Opayo we can't support the function **Adjustment Refund** - meaning the refund of any amount. Only whole items can be refunded by adjusting the refund amount.

Adjusting the amount of several refunds

It is possible to carry out several refunds on an order. Please note that you can refund a maximum of 100% of the original amount. If you have already carried out a refund you need to make sure not to refund more than the initial amount by adjusting the amount and the Adjustment Fee.

6.3.2 Magento 2

6.3.2.1 Resolving a Current Magento Bug (v. 2.0.0)

In the 2.x version of Magento there is a bug. Please make the following adjustments to the file `/vendor/magento/module-sales/Model/Order/Payment.php` :

1. Delete the lines in the picture bellow which begin with a - .
2. Add the lines which has been marked with a + .

Method: registerRefundNotification(\$amount)

Diff:

```

$creditmemo->setPaymentRefundDisallowed(
    true
)->setAutomaticallyCreated(
    true
- )->register()->addComment(
+ )->addComment(
    __('The credit memo has been created automatically.')
);

```

Figure 6.1: Adjustments so you are able to enter a credit memo.

Here you can find the codes to be inserted in the form of a text:

```
+ )->addComment( __('The credit memo has been created automatically.'));
```

6.3.2.2 Performing Credits

For registered transactions you can create credits and transmit them automatically to Opayo . In order to do so open an invoice of an already registered order. By clicking on "Credit Memo" a dialog will open for the refunds. Now you can adjust the number of products which you would like to credit in the credit memo dialogue.

Here you can find each step again including screenshots:

#000000003 🔍 🔔 👤 admin ▾

← Back Send Email Credit Memo Hold Ship

ORDER VIEW

- Information
- Invoices
- Credit Memos
- Shipments
- Comments History
- Transactions

Search by keyword 🔍
🔽 Filters
👁 Default View ▾
⚙ Columns ▾
📄 Export ▾

Select It... ▾ 1 records found 20 ▾ per page < 1 of 1 >

	Invoice ↓	Invoice Date	Order Number	Order Date	Bill-to Name	State	Amount	Action
<input type="checkbox"/>	000000003	Dec 14, 2015 7:55:37 AM	000000003	Dec 14, 2015 7:54:41 AM	Test Customweb	Paid	CHF39.00	View

Figure 6.1: 1. Opening the Invoice

New Memo for #000000003

admin ▾

[← Back](#)
[Reset](#)

Order & Account Information

Order # 000000003 (The order confirmation email was sent)

Order Date	Dec 14, 2015, 7:54:41 AM
Order Status	Processing
Purchased From	Main Website Main Website Store Default Store View
Placed from IP	212.90.201.186

Account Information

Customer Name	Guest
Email	info@customweb.com
Customer Group	NOT LOGGED IN

Address Information

Billing Address [Edit](#)

Test Customweb
 Teststrasse 2
 Zürich, Zug, 8032
 Switzerland
 T: 555466684

Delivery address [Edit](#)

Test Customweb
 Teststrasse 2
 Zürich, Zug, 8032
 Switzerland
 T: 555466684

Figure 6.1: 2. Click on Credit Memo - Important the invoice needs to be opened first.

Refund Totals

	Subtotal	156,00 €
	Refund Shipping	<input type="text" value="5"/>
	Adjustment Refund	<input type="text" value="0"/>
	Adjustment Fee	<input type="text" value="0"/>
	Grand Total	161,00 €

Append Comments
 Email Copy of Credit Memo

Figure 6.1: 3. Choose which products you would like to credit and click on Refund Online.

#000000003

🔍 🔔 👤 admin ▾

← Back Send Email Credit Memo Hold Ship

ORDER VIEW

Information

Invoices

Credit Memos

Shipments

Comments History

Order History

Transactions

🔍

Select It... ▾
0 records found
20 ▾ per page
<
1
of 1
>

	Credit Memo	Created	Order	Order Date	Bill-to Name	State	Refunded	Action
We couldn't find any records.								

Figure 6.1: Overview of all the credits made

Adjusting the amounts for several refunds

It is possible to issue several credits on one order. Please note that you can't credit more than 100% of the original amount. If you have already issued a credit you will need to make sure you don't credit more than the original amount, by adjusting the amount and the Adjustment Fee.

6.4 Useful Transaction Information on the Order

6.4.1 Magento 1

In each order, processed via our module, you can find an overview of the most important information about the transaction as well as a transaction history.


Payment Information		
Authorisation amount	161.0000	
Currency	CHF	
Payment method	MasterCard	
Payment ID	23679571	
Captured amount	161	
Transaction authorised	Yes	
Transaction uncertain 	No	
Transaction captured	Yes	
Transaction paid	Yes	
Alias	XXXXXXXXXXXX0007 (12/13)	
Alias Token	8B1974E9-59EB-442C-A1D4-34BEC568EE23	
Acceptance	test123	
Card number	XXXXXXXXXXXX0007	
Card expiry date	12/13	
Merchant reference	sellxed_og_10000087	
Transaction history		
Date	Action	Message
2013-09-12 12:53:50	authorization	The amount of 161.00 is authorized.
2013-09-12 12:53:50	capturing	The amount of 161.00 is captured.
Order was placed using CHF		

Figure 6.1: Transaction Information.

6.4.2 Magento 2

In each order, which was processed by our module, you will find an overview of the most important information on the transaction and transaction history.

Payment & Shipping Method

Payment information



Visa

Transaction ID	14
Authorisation Amount	107
Currency	CHF
Payment period	Visa
Payment ID	h1ElhGAKOSCitASfE0IibOShndA
Test Transaction	Yes
Transaction authorised	Yes
Transaction uncertain	No
Transaction paid	Yes
Card Type	Saferpay Test Card
Effective Payment Method Name	SaferpayTestCard
Authorisation Method	PaymentPage
3D Secure	Successful

Shipping & Handling Information

Flat Rate - Fixed CHF10.00

Dec 14, 2015 11:08:14 AM | Authorization
 The amount of 107.00 is authorized. (Customer successfully returned from the Saferpay payment page.)

The order was placed using CHF.

Figure 6.1: Transaction Information.

6.5 Usage of the Alias Managers / Token Solution

6.5.1 Magento 1

With the Alias Manager, your customers can securely save their credit cards with Opayo for later purchases. You can enable this by activating the option "Alias Manager" in the configuration of the [Payment Method](#). The customer can then choose from their saved credit cards without having to enter all the details again.

Visa

Card N°: 9451 1231 0000 0111 Date of Expiry: 12/2015 CVV: 123

Saved cards:

xxxx xxxx xxxx 0111

You may choose from one of the cards previously used on this site.

Card holder name *

Test Alias

Please enter the card holder's name.

Card number *

xxxx xxxx xxxx 0111

Please enter your card number

Card expiration date *

12 2015

Select the expiry date of your card

CVC Code *

Please enter the CVC code from your card. You can find the code on the back of the card

Figure 6.1: Alias Manager Transaction

Attention

To use the Alias Manager tit may be necessary to activate certain options in your Opayo account. Please contact Opayo directly to do so.

6.5.1.1 Deleting Customer Aliases

You can easily delete a customer's alias by opening the customer in the backend of Magento. Switch to the tab Opayo Alias and delete the saved alias directly here.

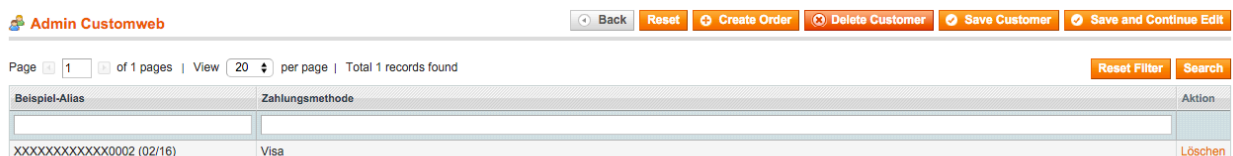


Figure 6.1: Delete previously saved aliases of your customers.

6.5.2 Magento 2

Due to the integration of the Alias Manager the customers credit card data can be saved for later purchases. The customer can choose between the cards that have already been saved and won't have to enter all of credit card data again.

6.5.2.1 Activating the Alias Manager / Token

In order for you to be able to use this you will need activate the option "Alias Manager" in the payment methods.

Payment

Check / Money order

Test Payment Method

VISA

Hans Muster
 Beispielstrasse 1
 Zürich, Zürich 8000
 Switzerland
 044 123 45 67
[Edit](#)



Stored Cards

xxxxxxxxxxxx0002

You may choose one of your stored cards.

Card holder name *

Hans Muster

Please enter the card holder's name.

Card number *

xxxxxxxxxxxx0002

Please enter your card number.

Expiry Date *

05 2018

Select the expiry date of your card.

CVC Code *

Please enter the CVC code from your card. You can find the code on the back of the card.

Place Order

Order Summary

Cart Subtotal CHF28.00

Order total CHF28.00

2 Items in Cart ^



LifeLong Fitness IV CHF28.00

Qty: 2



Figure 6.1: Alias Manager Transaction

6.5.2.2 Customers Deleting the Token

In Magento 2 you can allow your customers to manage the aliases in their customer account at "My Opayo Aliases / Token". This feature can also be enabled in the settings of the payment method



Customer Alias Management	Yes	[STORE VIEW]
	You can allow the customers to manage/delete their aliases in their account.	
Await Notification	Yes	[WEBSITE]
	In some cases it may take a few seconds until the transaction is successfully authorized. When this option is enabled, the notification is awaited.	
External Checkout: Guest Checkout	Show Account Selection	[WEBSITE]
	When using an external checkout, the customer can either be asked to choose an option to authenticate (as guest, register or login) or he can always be checked out as guest. For the second option to work, guest checkout has to be enabled in Magento.	

Figure 6.1: Activating the Alias Manager for Customers.

6.6 Tax Calculation Settings

6.6.1 Magento 1

To ensure that the taxes are calculated correctly and transmitted correctly to a third party invoice provider inside Magento please make sure that you set the calculation settings in the menu under System > Configuration > Tax as showed in the screenshot below.

Calculation Settings		
Tax Calculation Method Based On	Total	[WEBSITE]
Tax Calculation Based On	Shipping Address	[WEBSITE]
Catalog Prices	Excluding Tax	[WEBSITE]
	▲ Whether catalog prices entered by admin include tax.	
Shipping Prices	Excluding Tax	[WEBSITE]
	▲ Whether shipping amounts entered by admin or obtained from gateways include tax.	
Apply Customer Tax	Before Discount	[WEBSITE]
Apply Discount On Prices	Including Tax	[WEBSITE]
	▲ Apply discount on price including tax is calculated based on store tax, if "Apply Tax after Discount" is selected.	
Apply Tax On	Custom price if available	[WEBSITE]
Enable Cross Border Trade	No	[WEBSITE]
	▲ When catalog price includes tax, enable this setting will fix the price no matter what the customer's tax rate is.	

Figure 6.1: Recommended tax calculation settings for Magento.

Please also make sure that inside the settings of your promotion in the tab "Actions" the discount is not applied to the shipping amount as Magento is not correctly transmitting the tax rate there.

6.7 OneStepCheckout

6.7.1 Magento 1

The checkout of Magento can be modified and reduced to one step. The so called OnePageCheckout. Our modules support the most important OnePageCheckout extensions. If you are thinking of using a OneStepCheckout extension in combination with our Opayo Magento, please make sure that you are using one of the following:

- OneStepCheckout by www.onestepcheckout.com
- OneStepCheckout by [Ahead Works](#)
- LightCheckout by [GoMage](#)
- Firecheckout by [Templates Master](#)

6.7.2 Magento 2

There is no official support for any OnePageCheckout module for Magento 2.

6.8 Setup a Cron Job to Activate the Timed Operations

6.8.1 Magento 1

To activate the timed operations of the plugin (e.g. update service, deleting pending orders, etc.) make sure that you set up the Magento Cron engine. Especially the update function allows you to automatically retrieve additional information or changes of your order directly via the API of Opayo. Please note it could be that in order to use the update feature it may be necessary that Opayo activates additional options in your account.

The module uses the standard cron engine of Magento. More information regarding the set up can be found [here](#).

Here we suggest you use a Cron Engine like for example [EasyCron](#). This allows you to open the file (URL) with an external service.

6.8.2 Magento 2

The module uses the standard cron engine of Magento 2. More information regarding the set up can be found [here](#).

6.9 Magento 1 API Manual

Via API, our module provides plenty of information on a transaction. The following section describes which calls are possible and what information is provided.

6.9.1 General Information on Using the API

General information on using the Magento SOAP API can be found here: <http://www.magentocommerce.com/api/soap/introduction.html>

6.9.2 API Calls

This overview shows the API Versions and which API Calls they support.

6.9.2.1 API V1

- `$client->call($session, 'sagepaycw_transaction.list');` //List of all transactions
- `$client->call($session, 'sagepaycw_transaction.info', {transactionsId});` // Single Transaction

6.9.2.2 API V2

- `$client->sagepaycwTransactionList($session);` //List of all transactions
- `$client->sagepaycwTransactionInfo($session, {transactionsId});` //Single Transaction

6.9.2.3 XML-RPC

- `$client->call('call', array($session, 'sagepaycw_transaction.list');` //List of all transactions
- `$client->call('call', array($session, 'sagepaycw_transaction.info', {transactionsId}));` //Single Transaction

6.9.2.4 REST

- `$this->callApi('sagepaycw/transactions');` //List of all transactions
- `$this->callApi('sagepaycw/transactions/{transactionsId}');` //Single Transaction

7 Testing

Before switching from test to live mode it is important that you test the module extensively.

Testing

Do not forget to switch the operating mode from test to live after having successfully tested the module.

7.1 Test Data

In the following section you can find the test data for the various payment methods:

Credit / Debit Card

Card number	4929 0000 0000 6
Expiry Date	12/2030
CVC	123

Visa

Card number	4929 0000 0000 6
Expiry Date	12/2030
CVC	123

MasterCard

Card number	5404 0000 0000 0001
Expiry Date	12/2030
CVC	123

Debit Visa

Card number	5573 4700 0000 0001
Expiry Date	12/2020
CVC	123

Visa Electron

Card number	4917 3000 0000 0008
Expiry Date	12/2020
CVC	123

8 Errors and their Solutions

You can find detailed information under <http://www.sellxed.com/en/fag>. Should you not be able to solve your problem with the provided information, please contact us directly under: <http://www.sellxed.com/en/support>

8.1 Module is not shown

If the module is not shown even though the files have been downloaded onto the server correctly, please check the following:

- The local.xml can be found in the /app/etc directory
- Make sure `disable_local_modules` is set to `,false'`

8.2 The Referrer URL appears in my Analytics Tool

When a customer and the notification are redirected via Header Redirection, the Opayo Referrer URL might appear in your Analytics Tool thus hiding the original traffic source. However, most Analytic Tools are able to minimize this problem.

In case you are using Google Analytics as reporting tool, this step by step guide may help you to exclude the URLs: [under bullet point 4](#).

9 Compatibility with Third-Party Plugins

The plugins listed below are compatible with our payment modules and allow you to handle certain tasks in a easier way.

9.1 Magento 1

9.1.1 Fees and discounts within Magento

To configure a Opayo payment gateway based fee and discount, you will need the following 3rd-Party plugin.

- [Fooman Surcharge](#)

9.2 Birthday and gender in Magento 1

For certain payment service providers it is necessary to check the birthday an the gender of a customer. Magento 1 does not check this by default. this check can be enabled under "Go to System > Configuration | Customers > Customer Configuration > Name and Address Options".

9.3 Birthday and gender in Magento 2

For certain payment service providers it is necessary to check the birthday an the gender of a customer. Magento 2 does not check this by default. this check can be enabled under "Stores > Configuration | Customers > Customer Configuration > Name and Address Options".

10 Error Logging

The module will log different unexpected errors or information depending on the configured level. If there is any issue with the module, this log can help identify the cause.

10.1 Log Levels

You can configure the log level in the Opayo settings. The store log setting does not affect these log messages.

- Error: Logs unexpected errors only. (Default)
- Info: Logs extended information.
- Debug: Logs information helpful for debugging.

10.2 Log Location

The log file is stored in the Magento log directory. (Default Path: {shopRootDirectory}/var/log)

11 Advanced Information

This section of the manual is for advanced usage of the module. The content is for advanced users with special requirements. Everything in this section is optional and not required for the daily usage of the module.

11.1 Transaction Object

This section describes how to extract information from a transaction, if you need it for further processing. E.g. you require more information of the transaction for further processing an order in your ERP system.

The code snippets in this section assume your script resides in the root folder of the shop with the default shop folder structure.

11.1.1 Magento 1

Initialize the shops core functions.

```
define('MAGENTO_ROOT', getcwd());
$mageFilename = MAGENTO_ROOT . '/app/Mage.php';
require_once $mageFilename;
Mage::setIsDeveloperMode(true);
ini_set('display_errors', 1);
umask(0);
Mage::app();
```

Now you can load the transaction and then extract the transactionObject.

Load the transaction object by Id:

```
$dbtransaction = Mage::getModel('sagepaycw/transaction')->load($transactionId);
$transactionObject = $dbtransaction->getTransactionObject();
```

Load the transaction object by Order Number:

```
$dbtransaction = Mage::getModel('sagepaycw/transaction')->load($orderId, 'transaction_external_id');
$transactionObject = $dbtransaction->getTransactionObject();
```

11.1.2 Magento 2

Initialize the shops core functions.

```
use Magento\Framework\App\Bootstrap;
require __DIR__ . '/app/bootstrap.php';
$bootstrap = Bootstrap::create(BP, $_SERVER);
$obj = $bootstrap->getObjectManager();
```

```
$state = $obj->get('Magento\Framework\App\State');  
$state->setAreaCode('frontend');
```

Get the transaction factory.

```
$factory = $obj->get  
( 'Customweb\SagePayCw\Model\Authorization\TransactionFactory' )->create();
```

Now you can load the transaction and then extract the transactionObject.

Load the transaction object by Id:

```
$dbTransaction = $factory->load($transactionId, 'entity_id');  
$transactionObject = $dbTransaction->getTransactionObject();
```

Load the transaction object by Order Number:

```
$dbTransaction = $factory->load($orderId, 'order_id');  
$transactionObject = $dbTransaction->getTransactionObject();
```

Load the transaction object by Payment Id:

```
$dbTransaction = $factory->load($paymentId, 'payment_id');  
$transactionObject = $dbTransaction->getTransactionObject();
```