



Maksuturva/eMaksut
Payment Gateway Module
OpenCart 1.5.1-



Revision 120

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1 Changes

Date	Module revision	Description
02.04.12	94	Initial module version.
13.04.12	99	Bug fix: Electronic product delivery address was missing and caused invalid data to be sent.
16.04.12	101	Minor fix: Product name and model now sent as description.
25.05.12	105	Bug fix: Confirmation e-mail is no longer sent too early. Bug fix: Confirmation e-mail is no longer sent for cancelled order. Bug fix: The module should now work with PHP 5.2 (not require 5.3)
16.07.12	110	Bug fix: Hash calculation problems with HTML special characters fixed.
09.11.12	110b	Bug fix: Web store can now use other default currencies than Euro, but the buyer must choose Euro to confirm order.
15.03.13	120	Fixes to handling product name and description (use other one if the other is blank). Fixed handling of unregistered customers. Also some changes in the common code. No effect on functionalities in this implementation.

2 System requirements

The Maksuturva Payment Gateway module for Open Cart was tested on and requires the following set of applications in order to fully work:

Requirement	Supported versions
OpenCart	<ul style="list-style-type: none">• 1.5.0+
PHP	<ul style="list-style-type: none">• 5.2.+
PHP cURL module	<ul style="list-style-type: none">• Any
PHP mbstring module	<ul style="list-style-type: none">• n/a

There is no guarantee that the module is fully functional in any other environment which hasn't such requirements.

3 Limitations and notes

The following limitations have been found in this revision of the payment module or in the web store software in question:

- Customer's postal code is not mandatory information in OpenCart by default, however it is required in Maksuturva payment service and results an error when missing. Postal code can be set mandatory in OpenCart's country specific settings (System → Localisation → Countries → {eg. Finland})
- No quotation marks allowed in product names. Quotation marks in product names cause error in hash calculation.
- If a discount coupon is used in an order where shipping costs include tax, the values of the shipping costs and coupon will be forwarded incorrectly. Total sum of the order stays unchanged.
- Free shipping discount coupon is forwarded as a product row discount instead of setting shipping costs to zero. Does not affect into the total sum of the order, only the balance of pmt_amount and sellercosts.
- Shipping costs gross prices are forwarded correctly, but the tax is claimed to be 0 %. Does not affect into shipping costs with no tax, product rows nor the total sum of the order.
- If in Maksuturva payment page the buyer chooses a payment method with additional billing fees, the additional fees will not be stored for the web store admin to see. Actual paid sum can be checked from the KauppiasExtranet. (The possibility of additional billing fees depends on your service contract with Maksuturva).
- Error or canceled payment responses from Maksuturva service are presented (to customer and/or to the admin) somewhat insufficiently or not at all. In unclear cases, you should confirm payments in KauppiasExtranet.

4 Package contents

This guide assumes that all the package files were correctly downloaded by the user. The following folder structure is presented by the module when uncompressed:

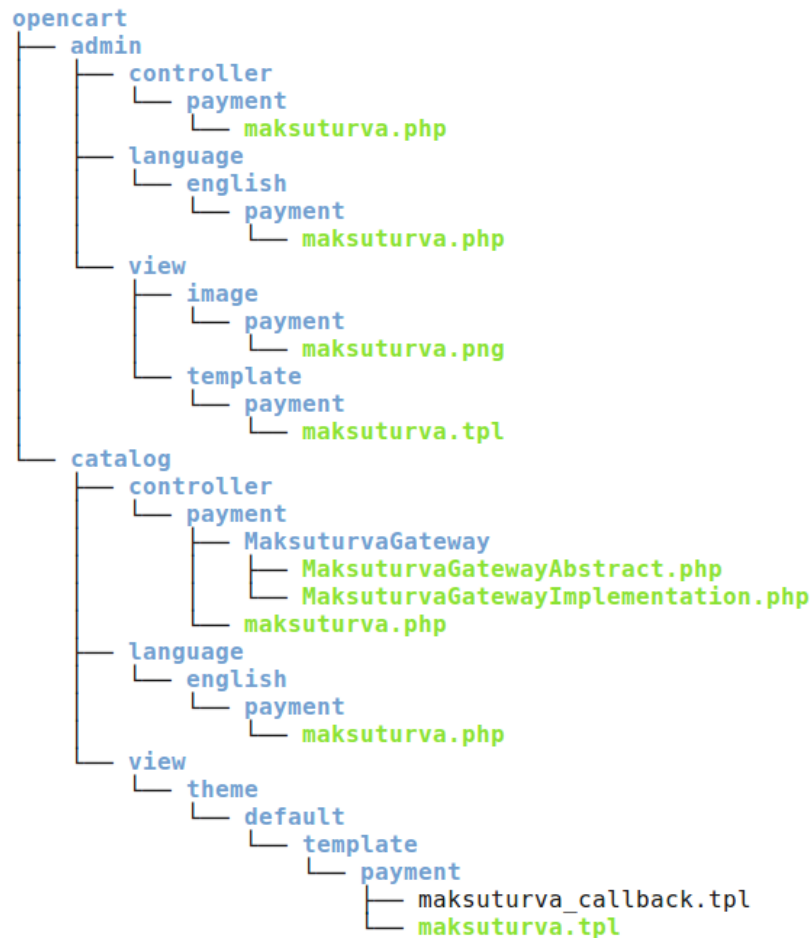


Illustration 1: Tree structure of package contents

File	Description
opencart/admin/maksuturva.php	Administrative tool for configuring and verifying pending payments.
opencart/admin/languages/english/payment/maksuturva.php	English language file for module, containing all admin messages.
opencart/admin/view/image/payment/maksuturva.png	Maksuturva logo
opencart/admin/view/template/payment/maksuturva.tpl	Administrative template
opencart/catalog/controller/payment/MaksuturvaGateway/MaksuturvaGatewayAbstract.php	Base class used to wrap Maksuturva's features.

File	Description
opencart/catalog/controller/payment/MaksuturvaGateway/MaksuturvaGatewayImplementation.php	Implementation of base maksuturva's class based on OpenCart
opencart/catalog/controller/payment/maksuturva.php	The main payment gateway file, called from checkout.
opencart/catalog/languages/english/payment/maksuturva.php	English language file for module, containing all customer messages.
opencart/catalog/view/theme/default/payment/maksuturva_callback.tpl	Customer's template for returning custom message
opencart/catalog/view/theme/default/payment/maksuturva.tpl	Customer's template for checkout an order.

5 Installation

Prior to any change in your environment, it is strongly recommended that a backup of the entire existing OpenCart installation is performed.

5.1 Package installation

The first step of installation involves to copy the package structure with its contents into a valid OpenCart installation directory. The simplest way of performing such operation is through copying both the *admin* and *catalog* folders from the maksuturva package into the OpenCart installation directory. In cases when the *admin* folder have been renamed the contents of the package's *admin* folder must be moved the correct admin folder of your installation. It is important to notice that a *merge* operation needs to be done, instead of replacing the entire directory.

Another option is to copy the package contents individually into their destination directories, creating such directories when they do not exist.

5.2 Language customization

It is possible to customize the language and messages used in the module. The customization takes effect by changing the text entries located in the files

/opencart/admin/languages/english/payment/maksuturva.php and
/opencart/catalog/languages/english/payment/maksuturva.php.

To add support to an existing installed language, open the destination language directories (/opencart/ [admin , catalog] /languages/english/, where english is taken as example) and create the following tree structure, if it doesn't exist:

```

opencart/admin/language/english/
├── payment
│   └── maksuturva.php
opencart/catalog/language/english/
├── payment
│   └── maksuturva.php

```

Then, **copy** the maksuturva.php file from the current language directory to the destination language directory. Finally, open both maksuturva.php files in edit mode and perform the translations and customizations.

5.3 OpenCart setup

When the files are copied into the destination directory, open the administrative panel of your OpenCart installation and go to Extensions → Payments section. The Illustration 2 shows the path to open the installation panel.

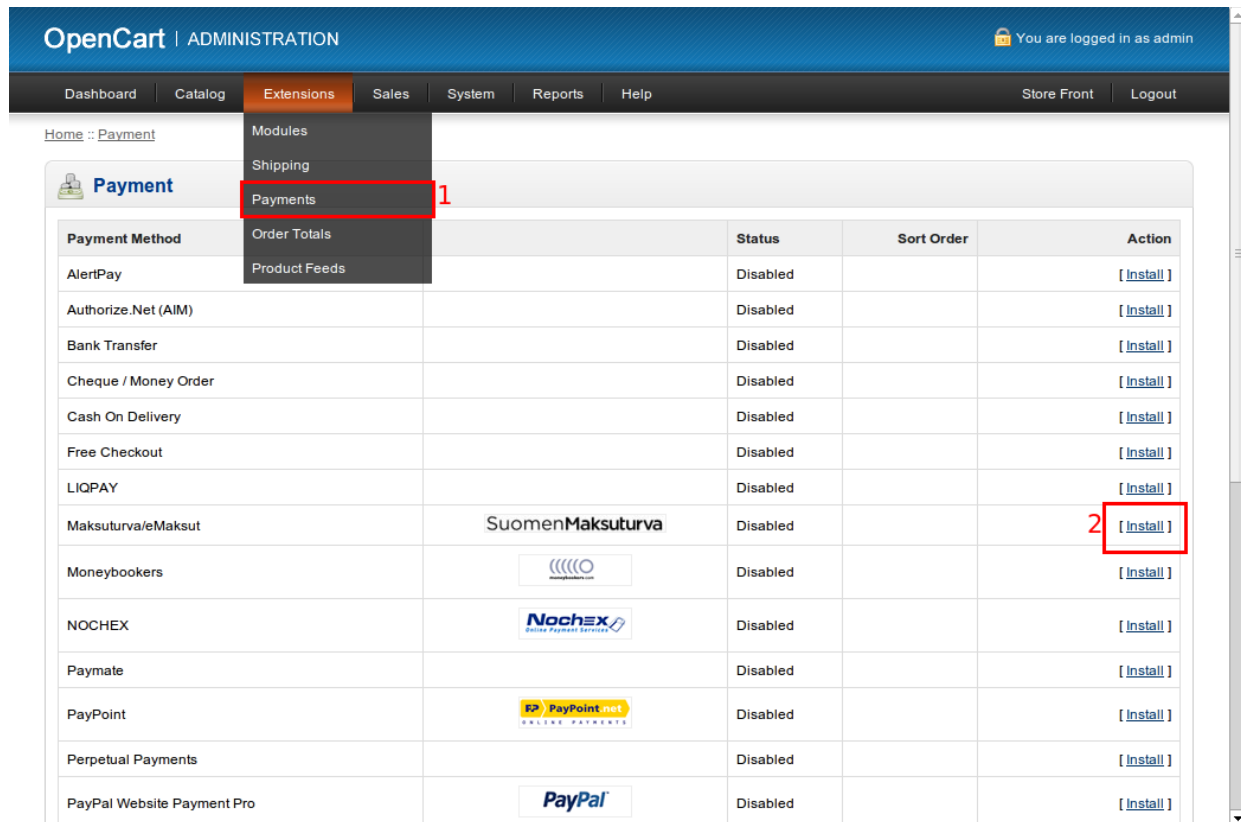


Illustration 2: Open the payment section page, find the extension and click to install

In payment modules page, click “Install” in the Maksuturva line, as shown on step 2 of Illustration 2. The module is now shown as installed, and the configuration interface will be displayed (if not, click on edit link, shown on the same place of “install” link).

6 Configuration

The configuration section for Maksuturva's module is reached by accessing the installed payment modules, as shown in Illustration 2. The parameters and their possible configurations are presented in Illustration 3.



Maksuturva/eMaksut

[Verify all pending payments](#)

[Open KauppiasExtranet to view payments](#)

Sandbox Mode:

Do you want to enable the test mode? All the payments will not be real.

Yes ▼

eMaksut:

Use eMaksut payment service instead of Maksuturva.

No ▼

Communication encoding:

Maksuturva accepts both ISO-8859-1 and UTF-8 encodings to receive the transactions.

UTF-8 ▼

Seller id:

The seller identification provided by Maksuturva/eMaksut upon your registration.

Secret Key:

Your unique secret key provided by Maksuturva/eMaksut.

* Secret Key Version:

The version of the secret key provided by Maksuturva

001

* Communication URL:

The URL used to communicate with maksuturva. Do not change this configuration unless you know what you are doing.

https://www.maksuturva.fi

Status for a created order:

Processing ▼

Status for a complete (successfully) order:

Complete ▼

Status for a cancelled order:

Canceled ▼

Status for a failed order:

Failed ▼

Status for a delayed order (giropay):

Pending ▼

Module Status:

Enabled ▼

Sort Order:

Illustration 3: Configuration parameters

All the configuration entries are detailed below. Remember to save the changes after your actions by clicking on “Save” button.

6.1 *Sandbox mode*

It is possible to set the module in test mode through turning the Sandbox mode to “True”. When this option is selected, default test parameters (Seller ID and Secret key) will be used in your store payments, meaning that no money will be spent when paying the orders. This is a great tool to test the operation of your store and training employees.

When set to “No”, the production mode will be used and real commercial transactions will be performed when payments are done.

6.2 *eMaksut*

This configuration option enables payments to be done using eMaksut's service, instead of using Maksuturva's one.

6.3 *Communication encoding*

There are two possible character encodings that are accepted by Maksuturva. Even if you are using a different encoding the module will attempt to convert the data from your OpenCart encoding to the encoding set on this configuration. You might need to test which of them works better for your encoding by using the sandbox mode. The possible values are 'ISO-8859-1' and 'UTF-8' and they are selected from the combobox. The default value for this setting is 'UTF-8'.

6.4 *Seller ID*

Open your Maksuturva account and check your seller ID in account details. The seller id is your identifier, used in every transaction inside your store. Copy the value and paste it in this field. When using sandbox mode, the value filled in this option will not be used, since the test account will be activated.

6.5 *Secret key*

Together with the Seller ID, the secret key is also provided by Maksuturva. Check your secret key and input this value into the configuration field. Please note that this key must not be shared with any person, since it allows many operations to be done in your Maksuturva account.

6.6 *Secret key version*

The version of Secret key, provided too by Maksuturva. Default value is 001.

6.7 *Communication URL*

This configures which URL the payment and query status operations will send the data to Maksuturva. The default value is '<https://www.maksuturva.fi>'. The default value will be the address you need on 99,9% of the cases, so only change this parameter if you know exactly what you are doing.

6.8 Status for created order

Maps to OpenCart model what status should be the created orders. On every checkout, even unsuccessful, the Maksuturva module will change the order status to this one. A recommended value is "Processing".

6.9 Status for complete order

Maps to OpenCart model what status should be the complete (successfully) orders. A recommended value is "Complete".

6.10 Status for cancelled order

Maps to OpenCart model what status should be the cancelled orders, when user or maksuturva cancels for some reason. A recommended value is "Canceled".

6.11 Status for failed order

Maps to OpenCart model what status should be the failed orders. Failed orders can happen for some user mistake or some communication problem between user and Maksuturva, or even from store's server and Maksuturva. A recommended value is "Failed".

6.12 Status for delayed order

Maps to OpenCart model what status should be the delayed orders. A recommended value is "Pending".

6.13 Module Status

This entry defines if the module should be activated for usage in payments for customers. When set to "True" it will be used. When set to "False", it will not.

6.14 Sort order

Every payment gateway module has a classification which tells the order of listing to the store customers. Supposing you have more than one gateway installed, the lowest order will be printed on top of selections, giving the module more importance as a checkout option. The possible values are any integer equal or greater than zero.

7 Administration

7.1 Delayed payments

The Maksuturva Gateway Payment module allows customers to perform delayed payments, meaning that a constant verification of payment status is needed. For that purpose, an administrative tool is presented within the module summary, accessed in the administrative section in "Extensions" → "Payment" → "Maksuturva/edit" → "Verify all pending payments". The link to verify the pending payments is highlighted in red in Illustration 4, in two places.

OpenCart | ADMINISTRATION You are logged in as admin

Dashboard Catalog Extensions Sales System Reports Help Store Front Logout

Home :: Payment :: **Maksuturva/eMaksut Verify** :: Maksuturva/eMaksut

Maksuturva/eMaksut Save Cancel

[Verify all pending payments](#)
[Open KauppiasExtranet to view payments](#)

Sandbox Mode:
 Do you want to enable the test mode? All the payments will not be real. Yes ▾

Illustration 4: The verification tool

When clicked, a new window will open and the verification process will start. Depending on the number of pending payments, the verification can take a while to complete. When done, a summary of the status changes will be presented, with links to the orders on the left column and the message from Maksuturva on the right column. It is possible to change order status and communicate the customer using the links provided by this tool.

Dashboard Catalog Extensions Sales System Reports Help

Home :: Payment :: Maksuturva/eMaksut :: **Maksuturva/eMaksut Verify**

Maksuturva/eMaksut Verify

List for verified pending payments

Order ID	Message from Maksuturva
#10	Payment confirmed by Maksuturva/eMaksut. (Paid, being delivered and uncompensated)
#11	Waiting for payment confirmation by Maksuturva/eMaksut (Unpaid and tracking code received)
#12	Payment confirmed by Maksuturva/eMaksut. (Paid and missing tracking code)
#13	Waiting for payment confirmation by Maksuturva/eMaksut (Unpaid)
#14	Waiting for payment confirmation by Maksuturva/eMaksut (Unpaid)
#15	Payment confirmed by Maksuturva/eMaksut. (derivedSellerState.compensated)
#16	Payment confirmed by Maksuturva/eMaksut. (Paid, being delivered and uncompensated)
#17	Payment confirmed by Maksuturva/eMaksut. (Paid and missing tracking code)
#18	Waiting for payment confirmation by Maksuturva/eMaksut (No payment found with specified data)
#19	Payment cancelled by customer. (Cancelled)

Illustration 5: Pending payments verification result

7.2 Manually verifying payments

Besides the automatic pending status verification, another possibility is to open your Maksuturva account from within the OpenCart panel. The link “Open KauppiasExtranet to view payments” is highlighted in Illustration 6.

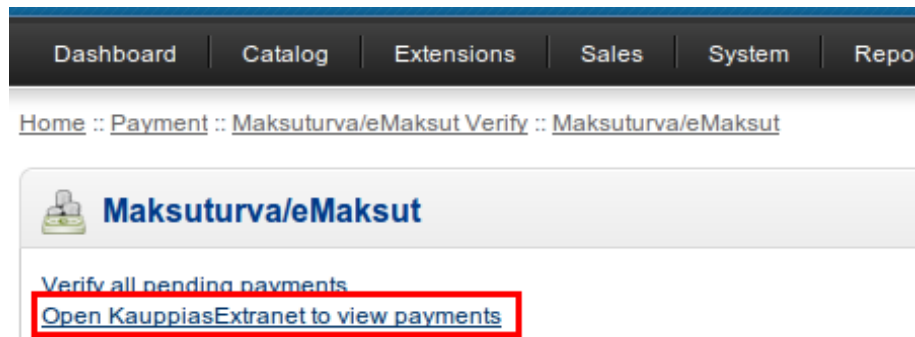


Illustration 6: View payments in KauppiaExtranet

7.3 Taxes configuration

By default, OpenCart uses tax calculation disabled. If you want automatic tax include, check OpenCart forums and official site to enable and config this feature, and Maksuturva module will automatically sum the tax, considering the product's price as without taxes. This feature works only on OpenCart versions 1.5.1.x.

8 Testing the installation

In order to test the Maksuturva Payment Gateway module, open your configuration section, as shown in section 5 – Illustration 3, set the Sandbox mode to “True” and save your changes. Follow the steps below to test a purchase.

Step 1 - Log in as a customer and perform a purchase of a random item, selecting Maksuturva as the payment option during the checkout. Pay attention to some random address as Maksuturva validates some postal codes.

Step 5: Payment Method

Modify »

Please select the preferred payment method to use on this order.

☒ Maksuturva/eMaksut

☐ PayPal

Add Comments About Your Order

I have read and agree to the [Terms & Conditions](#)

☒

Continue

Illustration 7: Step 1 - Select maksuturva

Step 2 – Confirm the order.

Total:

\$506.25

To complete the payment for your order, you will be redirected.

Confirm Order

Illustration 8: Step 2 - Confirm the order

Step 3 – In Maksuturva test environment, click “Ok return”, simulating a payment done successfully.

[Ok paluu / OK return](#) Palaa välittäen ns request stringissä maksamisen vahvistusviestin osoitteeseen, joka tuli pmt_okreturn -kentässä.

[Virhe paluu / Error return](#) Palaa ilman lisättyjä parametreja osoitteeseen, joka tuli pmt_errorreturn -kentässä

[Peruutus paluu / Cancel return](#) Palaa ilman lisättyjä parametreja osoitteeseen, joka tuli pmt_cancelreturn -kentässä

[Viivästetty maksu \(tilisiirto\) paluu / Delayed payment \(giro\) return](#) Palaa ilman lisättyjä parametreja osoitteeseen, joka tuli pmt_delayedpayreturn -kentässä

Illustration 9: Step 3 - Select simulation action

Step 4 – Now the payment was confirmed and the store administrator will be able to check the update when viewing the order. The other actions in Step 3 can be selected (“Error return”, “Cancel return” and “Delay return”) for testing purposes.

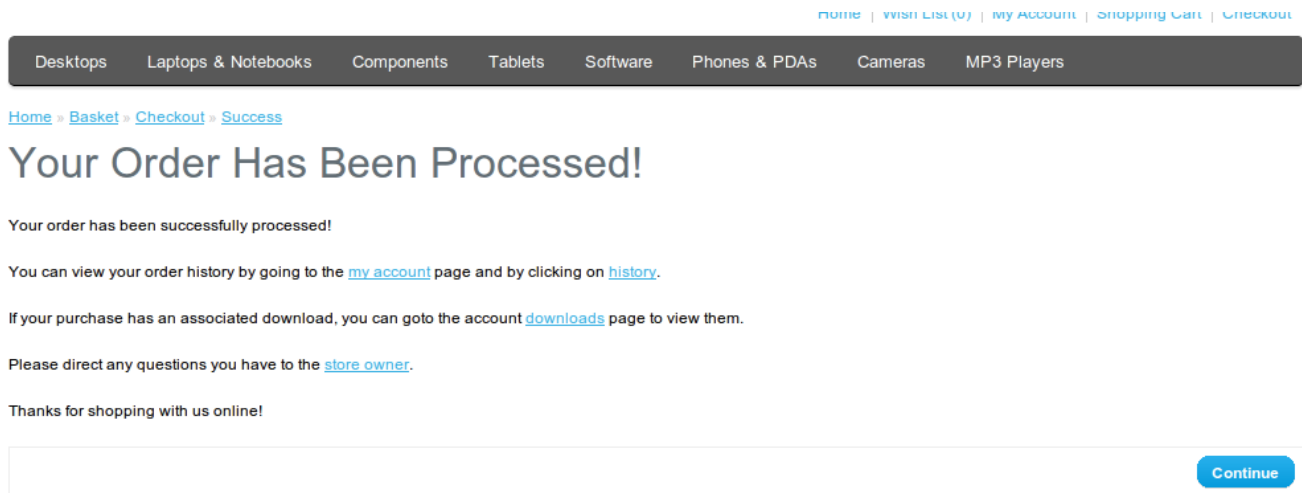


Illustration 10: Step 4 - Simulation result