

DYNAMIC DOWNLOADS

Open cart extension to make downloads flexible and create them in real time, using data from client order, product, product options, customer account and so on.

Extension page:

https://www.opencart.com/index.php?route=marketplace/extension/info&extension_id=25830

Support site: <http://octest.cmstory.com/>

STEP BY STEP INSTRUCTION TO CREATE A DYNAMIC DOWNLOAD

1. We suppose module is successfully installed, as described in readme.txt file.

- 1.1. As it is vQmod dependent, it is good idea to check if installation is without errors. Using FTP client go to server root of the site, and check directory **/vqmod/logs** for errors connected to **comoddownloads.vqmod.xml** file.
- 1.2. Please check permissions to access and modify the module at *Admin panel, System, Users, User Groups, Administrator*.
- 1.3. Go to *Admin panel, Extensions, Modules* and install and edit module **Como Dynamic Downloads**. Add one action in **Action list** (just add one, later will fulfill particulars in the form). Then module screen should look like this picture:

Como Dynamic Downloads Home / Modules / Como Dynamic Downloads

Edit Dynamic Downloads

Status: Enabled

Directory for dynamic files: Directory for dynamic files
Directory exist (/home/cmstory/public_html/octest23/system/storage/upload/)

Actions List

<input type="checkbox"/>	Id	Name	Description	File name	Status	Action
<input type="checkbox"/>	3	Dynamic Downloads example to create ZIP file.	This is sample example for module Dynamic Downloads usage. Created ZIP file contains data from the user who downloads the file.	dddownloads.zip	Enabled	
<input type="checkbox"/>	4	Dynamic Downloads example to create PDF file.	This is sample example for module Dynamic Downloads usage. Created PDF file contains data from the user who downloads the file.	dddownloads.pdf	Enabled	



1.4. Note **Id column**. Remember Id action number and name – it needs later to connect to a download.

1.5. Note field **Directory for dynamic files**. This is the place where dynamic actions will perform. The default place, if you leave empty, is **/system/storage/upload/** directory. Remember this place, as later you have to operate there with FTP client.


2. First of all, you have to create one downloadable product, and to test it works as normal (static) download.

This is pretty clear as normal OpenCart feature, but here are some guidelines:



2.1. Go to *Admin panel, Catalog, Downloads*. As shown in the picture bellow, there is an extra column **Dynamic Action** coming with Dynamic Downloads module. For normal (static) downloads it is empty, for Dynamic downloads here is action Id, which will perform the work at real time.

Download List				
<input type="checkbox"/>	Download Name <small>▼</small>	Dynamic Action	Date Added	Action
<input type="checkbox"/>	Test Download PDF	4	23/11/2016	
<input type="checkbox"/>	Test Download ZIP	3	23/11/2016	

2.2. Create a download. Please fulfil the form. That means you upload a file, even it is static file. This file is not used in dynamic action later, but can be downloaded by customer if dynamic action fails for any reason. At that point, you can associate a dynamic action, or you must associate later after the dynamic action is fulfilled in particulars.

 Edit Download

* **Download Name**

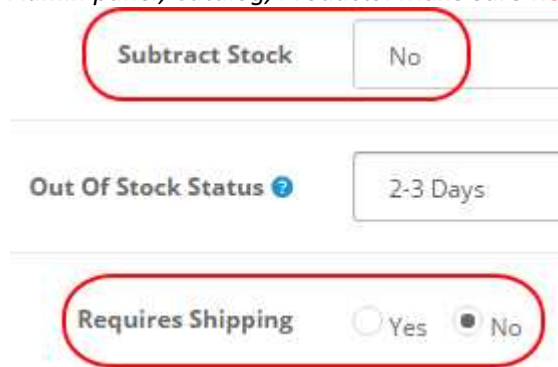
	Тест за теглене PDF
	Test Download PDF

* **Filename** ?

* **Mask** ?

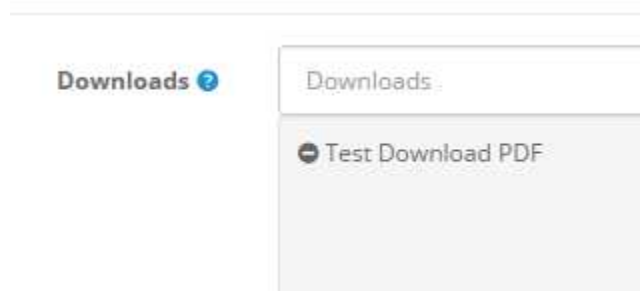
Dynamic Action ? ▼

2.3. Create a downloadable product and associate just created download file. To do this go to *Admin panel, Catalog, Products*. Make sure **Requires Shipping** and **Subtract Stock** to be **No**:



The screenshot shows two settings fields. The first is 'Subtract Stock' with a dropdown menu set to 'No'. The second is 'Out Of Stock Status' with a text input field containing '2-3 Days'. The third is 'Requires Shipping' with radio buttons for 'Yes' and 'No', where 'No' is selected. Red circles highlight the 'Subtract Stock' dropdown and the 'Requires Shipping' radio buttons.

In **Links** tab make sure to associate the downloadable file:




The screenshot shows the 'Downloads' tab with a dropdown menu. The dropdown is open, showing a list of download files. The first item is 'Test Download PDF', which is selected and highlighted in grey.

After creating the downloadable product, please test it works at client side: create customer account, make an order and download the file. For now, the file is static.

3. Now it is time to make the download dynamic.

Go to *Extensions, Modules, Como Dynamic Downloads* and edit module. In the table with action list edit previously created action (the action which you associated with the download). In the example below, we make PDF dynamic file.

 Edit Dynamic Downloads

Status

*** Name**

Description

Name for downloaded file

File/folder name for dynamic files

Action on the file/folder

Search/replace in the file/folder

In strings you can use fields from related order as keywords: {order_id}, {store_name}, {store_url}, {telephone}, {email}, {payment_firstname}, {payment_lastname}, {payment_city}, {payment_country}, {comment}, {ip}, ...
 To include serial number: {download_dserial}
 To include product options: {options.0.name}, {options.0.value}
 To include customer account data: {customer.customer_id}, {customer.email}, {customer.telephone}, {customer.custom_field.n}
 To include customer address data: {address.address_id}, {address.firstname}, {address.lastname}, {address.custom_field.n}

Replace 1

File

Search

Replace

```
{payment_firstname} {payment_lastname}, {payment_country}, <br />
E-mail: {customer.email}, <br />
Client custom field: {customer.custom_field.1}, <br />
Address custom field: {address.custom_field.2}, <br />
Option: {options.0.name} = {options.0.value}, <br />
Option: {options.1.name} = {options.1.value} <br />
```

Detailed explanation of the fields follows:

Name and Description – used for your information only.

Name for downloaded file – This is the name which the customer will see to be saved on his computer. It is good and important here to make extension of this filename to be adequate to format of created dynamic file. For example, pdf if PDF file is created, and zip if ZIP file is created.

To compose the name, you can use keywords as described in search/replace section below.

File/folder name for dynamic files – In case we create PDF file, here we enter **exact name** of the **SAMPLE html file**, from which we will create the PDF file with this dynamic action. Important: you have to create this file in advance and **manually upload** using FTP client in the working directory, specified in module settings (by default it is **/system/storage/upload/**). It is important to mention, that this html file can be very complex one, **BUT**: it is single one and all related and used images or other files and links have to place in an accessible place in your site or other site, and referencing them with full internet address (example: ``).

Action on the file/folder – In this example we specify “Create PDF file”.

Note: To create PDF files from text or html files, we use TCPDF library included in the module. To create ZIP files we use ZipArchive class, available with PHP 5 >= 5.2.0.

Search/replace in the file/folder – Here the real work is to be performed ☺ You can specify one or more replacements which will occur handling above file in real time.

- **File** – If you specify a file in above field **File/folder name for dynamic files** then leave this field empty. If folder is specified in **File/folder name for dynamic files**, then here you must enter an existing file name in this folder (just file name relative to this folder).
- **Search** – here enter a text like this: REPLACE_TEXT1, which will be searched to be replaced in the specified file. All occurrences will be searched and replaced.
- **Replace** – The replacement can be any html text, but the real magic is in the fact, that with keywords you can specify and use in real time many data from customer account, address, order, product and product options! The format is self-explaining, in brackets you specify fields from respective table in the database. If you can explore your database (for example with phpMyAdmin), then you can find more useful fields. Some examples:
 - **From the order**
{order_id}, {store_name}, {store_url}, {telephone}, {email}, {payment_firstname}, {payment_lastname}, {payment_city}, {payment_country}, {comment}, {ip}, ...
 - **From customer account data**
{customer.customer_id}, {customer.email}, {customer.telephone}, {customer.custom_field.n}, {customer.custom_field.n.fieldname}, {customer.custom_field.n.valuename},.
 - **From customer account address** – most data exist in order, but you can use the address directly, especially custom fields.
{address.address_id}, {address.firstname}, {address.lastname}, {address.custom_field.n}, {address.custom_field.n.fieldname }, {address.custom_field.n.valuename },.
 - **From product**
{orderproduct.name}, {orderproduct.quantity}, {orderproduct.price}, {orderproduct.total} – from ordered product;
{product.name}, {product.description}, {product.quantity}, {product.image}, ... – from general product data.
 - **From product options**
{options.0.name}, {options.0.value}, {options.1.name}, {options.1.value}, ...
 - **Serial numbers** – Keyword to use next unused serial number is: {download_dserial}. See below how to manage serial numbers.

Particularities in using custom fields in above keywords.

As we know in Opencart custom fields for customer account and address can be created (and later used) in *Admin panel, Customers, Custom fields*. Keyword to use here to search and replace is like **{customer.custom_field.n}** or **{address.custom_field.n}**, where **n** is a number – ID of the field. To find the ID of particular custom field, you can edit the field

and see in address bar of your browser something like this:

... &custom_field_id=1

In this case the ID is 1.

Particularities in using product options in above keywords.

Product options are very useful at the point customer select downloadable products. It is possible to enter texts, dates and many more. Keyword to use here to search and replace is like **{options.n.name}**, **{options.n.value}**, where **n** is a number – ID of the product option in the downloadable product. To find this ID, you have to go to Admin panel and edit the product, click on **Option** tab. For example:

The screenshot shows the 'Edit Product' interface in the 'Option' tab. There are two options listed: 'Select color' and 'Start Date'. The 'Select color' option is expanded, showing a table with two rows. The first row has 'Blue' as the option value and '0' as the value. The second row has 'Green' as the option value and '0' as the value. A 'Required' checkbox is checked, and the 'Yes' button is visible.

Here we have 2 options: **Select color** and **Start date**.

Now inspect an element **in right tab** (where values are):

```
<div class="tab-content">
  <div class="tab-pane active" id="tab-option0"> == $0
    <input type="hidden" name="product_option[0][product_option_id]" value="228">
    <input type="hidden" name="product_option[0][name]" value="Select color">
    <input type="hidden" name="product_option[0][option_id]" value="5">
    <input type="hidden" name="product_option[0][type]" value="select">
```

Look at hidden input and find “value” attribute. In this case the product option Id is **228**. This number is the respective Id we can use in the search and replace keyword.

Particularities in using serial numbers in above keywords.

You can define serial numbers – normally unique strings, to associate with every downloadable product purchase. We can enter unlimited number of serial numbers. Every set of serials is attached to given action Id. Population is very easy and is possible bulk adding. As shown in picture below, button for managing serial numbers is next to edit button for each action:

☰ Actions List + 🗑️

<input type="checkbox"/>	Id ^	Name	Description	File name	Status	Action
<input type="checkbox"/>	4	Dynamic Downloads example to create PDF file.	This is sample exams the file.	ddownloads.pdf	Enabled	
<input type="checkbox"/>	3	Dynamic Downloads example to create ZIP file.	This is sample examp the file.	ddownloads.zip	Enabled	

Bulk serial number adding is shown in next picture:

Como Dynamic Downloads Home / Modules / Como Dynamic Downloads / Serial numbers

✎ Edit Serial numbers

Action Id

Bulk add serial numbers

ABC - Test serial XYZ-123-11
 ABC - Test serial XYZ-123-12
 ABC - Test serial XYZ-123-13

☰ Serial Numbers List + 🗑️

<input type="checkbox"/>	SN Id v	Action Id	Serial number	Order Id	Product order ID	Used on	Added on	Action
<input type="checkbox"/>	1	4	ABC - Test serial XYZ-123-1	2	3	2016-12-04 14:10:08	2016-12-04 14:07:23	
<input type="checkbox"/>	2	4	ABC - Test serial XYZ-123-2				2016-12-04 14:07:23	

When a serial is used (downloaded), module automatically marks this serial – see columns **Order Id**, **Product order Id**, **Used on**. When next product is ordered and downloaded, then next unused serial is searched, used, and marked. This algorithm ensures unique serial download for each purchased product, even multiple downloads from same order and product occurs (this is normal to happen in Opencart account page for customers).

- **If empty** – Specify text to be used if calculated replacement in using any of the keywords is empty or is not available. It is possible here to enter for example **N/A**.
- **Length** – Specify length of strings, if you want to ensure search and replace have same length (it is important in some cases, for example using executable files). Leave empty or enter -1 to not to use.
- **Charset** - Encoding for conversion of strings before search and replace. Format according to php iconv function. Example: ISO8859-1, WINDOWS-1251. Leave empty for no conversion (it works in most cases).
- **Barcode** – Here you can specify if to convert resultant text into barcode or QR code image. If specified, then path to generated image is returned, and it can be used in html

sample in image tag, for example:

```

```

In barcode section you can specify width and height of each barcode or QR code element (default is 2x30 for barcodes, 8x8 for QR codes).

Create file in the folder – This section is to specify actions to create files before copy/archive. It is only possible to use if a directory is specified in field **File/folder name for dynamic files** above. In his PDF example is not used. Anyway format and fields are very similar to above described section **Search/replace in the file/folder**.

4. Now we are ready to test.

Go to frontend of the site and make an order with newly created dynamic download.

Go to Account page, My Orders section, Downloads.

Account Downloads

Order ID	Name	Size	Date Added	Download
2	Test Download PDF	53.72KB	01/12/2016	
1	Test Download PDF	53.72KB	23/11/2016	
1	Test Download ZIP	53.72KB	23/11/2016	

Check downloaded file!

GOOD LUCK!

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