DPD shipping module documentation

PrestaShop module version 2.0

Table of Contents

Introduction

This document describes the ways, how to use the 2nd edition of DPD PretaShop module. It is meant for the merchants who will be using DPD services.

This document will have it's own version numbering sequence is called 2.0.
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Document version history

Version	Date	Comments	Changed by
2.0.0	2015-09-17	Initial release	UAB "BaltiCode"
2.0.1	2015-11-02	Added the "COD restriction" section on page 14.	UAB "BaltiCode"

Definitions

1. DPD – International shipping service provider.
2. DPD API – is an abbreviation Active programming interface, which allows Merchant to send parcel data, print packing slips from DPD and call courier to pick up parcels without leaving PrestaShop admin panel.
3. GPLv3 – Software license allowing distribution of free software. Link: http://www.gnu.org/licenses/gpl-3.0.txt
4. DPD Pickup points – Network of shops in operating countries, allowing customer to pick up purchased goods near comfortable location.

Added functionality

- Clients can use DPD Pickup points service in Lithuania by selecting preferred location from select menu, where they wish to pick up ordered goods.
- Clients can use DPD courier service in Lithuania.
- Updates list of DPD Pickup points from DPD server assuming PrestaShop cron has been properly configured.
- When DPD API communication contract exists, then Merchants can send parcel data to DPD server and print out DPD PDF packing slips from PrestaShop admin.
- When DPD API communication contract exists, then Merchants can send parcel data to DPD server and print out DPD PDF shipping manifests from PrestaShop admin.
- When DPD API communication contract exists, Merchants can call for courier to pick up goods from PrestaShop admin.
- When tracking code is supplied to the shipment, then customer can see tracking link when logging in to account, showing status of the shipment.

Use cases

- Customer orders goods to DPD Pickup points located in Lithuania, Latvia and Estonia.

- Customer located in Europe orders goods to be delivered to shipping address by courier.
- While merchant manages orders, they can send parcel data to DPD. They can print out DPD packing slips and/or shipping manifests without leaving PrestaShop admin panel.
- Merchant can call courier to pick up goods which can be delivered with DPD for one or several orders simultaneously. They can specify date and time, when the goods are supposed to be picked up.
- Merchant can declare different prices for different post codes which are being read from the customers contacts.

PrestaShop requirements

Current module works with following Prestashop versions: 1.5.x.x 1.6.x.x.

Third party libraries

Module uses "dompdf" PDF library: https://github.com/dompdf.

Installation guide

Requirements and tips prior the installation process

Before installing the module into the e-commerce system a merchants should already have a signed contract with DPD and receive user name, password and id. Merchants should also report their e-shop IP address to DPD manager in order to be able to send courier calls.

You should receive the module packed in a zip archive which would contains the documentation PDF file, and the module installation folders.
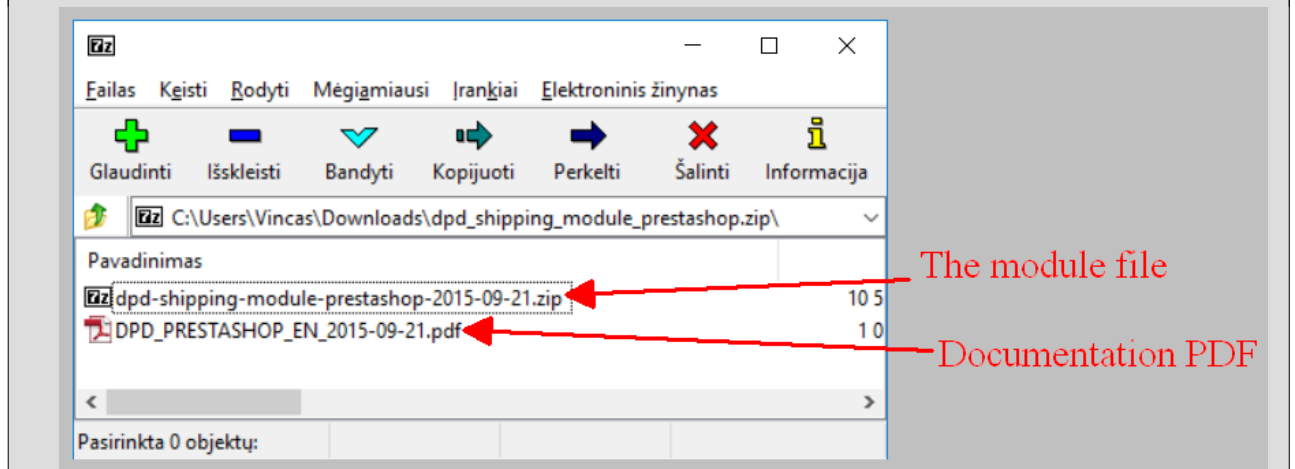
Notice! If you have an older version installed on your system, then please remove it prior installing a new one.

Installation process

The installation process is being done from PrestaShop admin panel. Merchants should do the following actions:

- Login to the PrestaShop back end;
- Go to Modules and Services > Modules and Services;
- Click the "Add a new module" button;
- Then "Choose a file" button;

Notice! Please check the downloaded archive file content. If inside of the archive there is a PDF file with another archive file, this means that the package needs to be extracted. The archive inside the archive is the shipping module it self.

- "Upload this module" button. After this action a new module should appear in the list of modules:

- Click the "Install" button.
- In a new window please proceed by clicking "Proceed with the installation".

After last step the module configuration form is being displayed and the merchant can enter all necessary information.

Quick Setup process

After successful upload operation please proceed with following setup steps:

1. Log in to PrestaShop admin panel.
2. Go to Modules and Services > Modules and Services;
3. In the module list find the DPD shipping module and click the "Configure" button;
4. Fill in all necessary fields: user name, password, ID, API URL and all the rest (check the "Module configuration form explained" section for more information).
5. In the end press the "Update settings" button.

After all setup has been done the merchant should be able to use all modules features, that are described in this document.

Module configuration form explained

The configuration form can be divided into three parts: general settings, courier settings and the settings for pickup points.
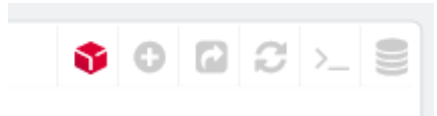
General settings

Setting name	Available values	Setting description
Enable	Yes/No	This setting enables the module.
DPD Self service username		Here the merchant can enter his/her user name provided by a manager from DPD.
DPD Self service password		Here the merchant can enter password provided by a manager from DPD.
DPD Self service user ID		Here the merchant can ID provided by a manager from DPD.
DPD Api URL		API URL provided by a manager from DPD.
Pickup address name		This text field can be used for entering merchants

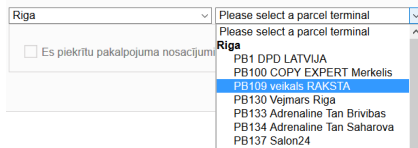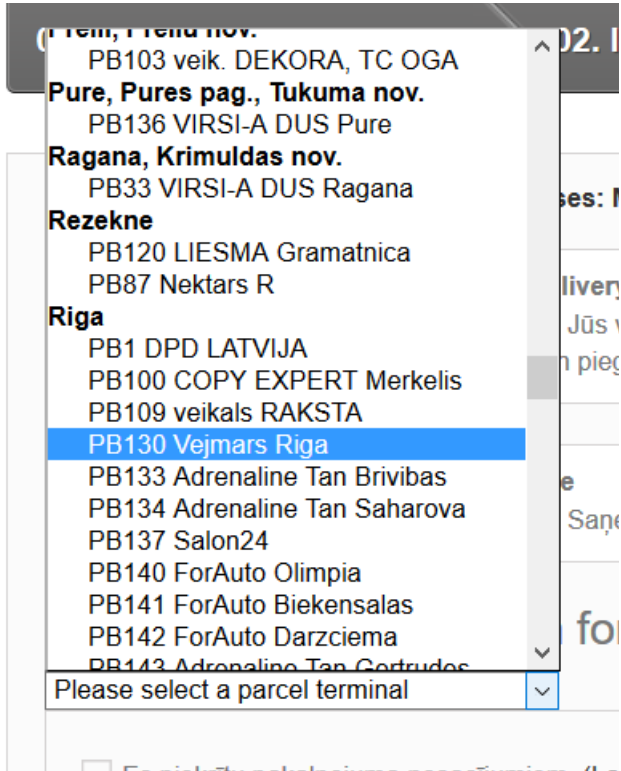|		specific pickup address. For example if the merchant has several e-shops which operate in several different places it is very convenient to give a name for each of it.
Pickup address company		The text field for declaring the company name. It can be used in those cases if the merchant owns several e-shops under different company names.
Pickup address e-mail		E-shop email address
Pickup address phone		Phone number
Pickup address street		E-shop parcel pickup street name
Pickup address city, county		E-shop parcel pickup city and county name
Pickup address zip code		E-shop parcel pickup zip code name
Pickup address country		E-shop parcel pickup country name
VAT code		E-shop companies VAT code number

Courier settings

Setting name	Available values	Setting description
Price calculate	Use PrestaShop settings/Use Custom calculation	Here a merchant can declare whether to use PrestaShop shipping settings or the DPD module custom ones.
Default Price		Here a merchant can declare a base price for the shipping method.
Available free shipping	Yes/No	This setting enables or disables free shipping feature.
Free from		In this field a price can be entered from which the shipping would be free of charge.
Use delivery price by postcode	Yes/No	Here a merchant can select whether to use the price by post code feature. Please refer to "How to setup prices according the post codes?" section for more information.

Delivery Price by postcode		Here a CSV file can be selected.
Export existing		Here a CSV file can be exported from the systems database.
Allow courier pickup	Yes/No	If this feature is disabled a merchant won't be able to call DPD courier from e-shop admin, as the "Call DPD Courier" button won't be available in the Orders list.
Show delivery time	Yes/No	If this setting is enabled, then in the checkout page a customer can select the delivery time. Please note, that delivery times are available only in certain cities.
Package size restriction	Yes/No	If this feature is enabled a package size restriction feature is available. Please refer to "How to setup the weight or size ranges for courier delivery?" section for more information.
Set delivery restriction		A merchant can enter different delivery restrictions in the provided table. The table is available only the "Package size restriction" setting is enabled.
Set delivery restriction :: Country		Here a country must be selected
Set delivery restriction :: Base shipping price		A shipping price can be entered for the declared country, weight and package size.
Set delivery restriction :: Max package weight		Here a merchant can declare the maximum package weight.
Set delivery restriction :: Max package size		A maximum shipping size can be entered for the declared country. The field should contain dimensions in this order: [height]x[width]x[depth].
Set delivery restriction :: Price for oversize package		Here a merchant can declare the price for oversize. If oversize is not an option, then value "-1" can be entered. This will define a new rule that if the package size is bigger than declared in "Max package size", then courier shipping method won't

		be available.
		In general, this field value will be added to the "Base shipping price". For example if an order consists of smartphone and a refrigerator, which dimensions exceeds the value of "Max package size", then this amount will be added to the "Base shipping price" amount.
		For more information, please refer to "How to setup the weight or size ranges for courier delivery?" section.
Set delivery restriction :: Price for overweight		Price which is being added to the calculated base price per one purchase, in case of overweight.
Set delivery restriction :: Free shipping from		A price from which the delivery price is free. The price is being compared with the whole cart price.
Set delivery restriction :: Add combination		This button will add one more line to the configuration table.

Settings for pickup points

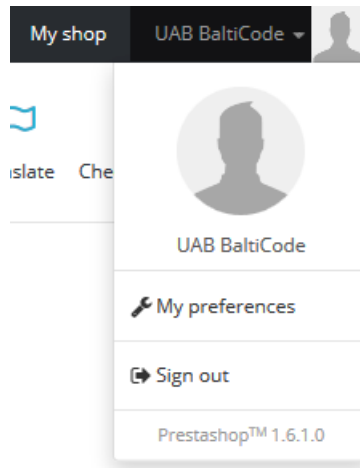| Setting name	Available values	Setting description
Default Price		Here a merchant can declare a base price for the shipping method.
Available free shipping	Yes/No	This setting enables or disables free shipping feature.
Type parcel display	Optgroup/Block	If "Block" option is selected than the Pickup points are displayed as two drop-downs. In the first drop-down the customer can select the region or the city, in the second one a certain pickup point: In case the Opgroup is selected, then there will be only one drop down with a list of grouped pickup points by region or a city:

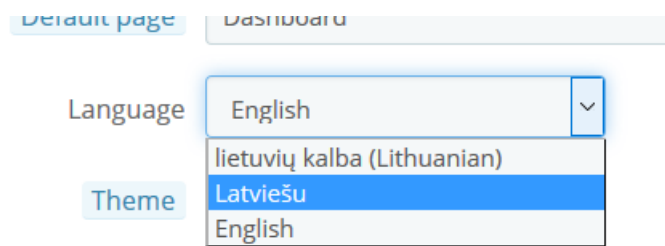|		
Show long office names	Yes/No	If this feature is enabled the, the Pickup points are shown with their addresses.
City priority		The name of a declared city, in this field will be pushed to the top of the Pickup points list in the checkout.

Module configuration

Change the Manifest language

In order to change the Manifest language the shop administrator must switch the language of e-shop backend. For example if the manifest should be in Latvian then the administrator should goto his account and change language there. This is being done in the following order:

1. Goto user account preferences:

2. Select the language which is needed in the language selection drop-down:

3. Save the preferences.

In a result the manifest will appear in a selected language. The module manifest can be translated into Latvian, Lithuanian and English language.

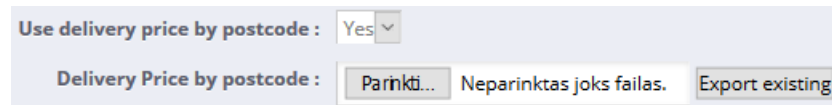## How to setup prices according the post codes?

Each merchant can define separate prices for separate post code. Using a simple CSV configuration file they can set the new base price, weight and package size maximum, the price for overweight/oversize and free shipping price.

The merchant is not forced to enter all the post codes in the country, he/she can enter a small portion of them and the rest will be covered by default values (price, free shipping and etc.).

In order to get this functionality a merchant must perform the following steps:

1. Go to module configuration: Modules and Services > Modules and Services > DPD [Configure].

2. In the shipping method configuration form, in "Use delivery price by postcode", a merchant can

select whether to use the post code functionality. In this case they should set the "Yes" option.

The "Delivery Price by postcode" appears.

The next section introduces the way of how to prepare an import file.

Creating a Post Codes import file

If a merchant is using this function for the first time he/she should:

1. Export the CSV file in order to get the correct data structure file. This can be achieved by pressing the "Export" button.

2. Enter ALL fields information, because *if the field is being left blank the database will interpret that value as zero*. Merchants should keep in mind that can not change the structure of CSV data file i. e. the number of commas should stay the same as in the head section:

   postcode,price,free_from_price,weight,height,width,depth,oversized_price,overweight_price
   1001,1,100,999,999,999,999,999,999

If the price file is ready then the merchant can upload it to the system by selecting it with browser specific selection buttons in the "Price by CSV" line.

> **Notice!** The CSV file can not contain blank or incorrect data, because the shipping module will not be able to read it. See the bad examples below:
>
> **Bad: CSV file can not contain blank values.**
>
> postcode,price,free_from_price,weight,height,width,depth,oversized_price,overweight_price
> 1001,1,,,,,,,
>
> **Bad: CSV file must contain the same ammount of values as in the firs line.**
>
> postcode,price,free_from_price,weight,height,width,depth,oversized_price,overweight_price
> 1001,1,999

How to setup the weight or size ranges for courier delivery?

If modules post code price calculation is not enabled a merchant can get use of different weight ranges feature which is being set in the "Package size restriction" feature.

In this case the setting "Package size restriction" should be set to "Yes".

The users of this feature should know that the module is always taking weight as a higher priority over the package size. This means that when the module will be validating purchase weight and only then it will go for size.

The weight or size ranges feature can be described by this example:

Order conditions: *the customer is from Lithuania and his/her order consists of one purchase which weights 15 kg and has a size of 20x20x20.*

Feature settings:

Country	Base shipping price	Max package size	Price for oversize	Max package weight	Price for overweight	Free shipping from
Lithuania	10	10x10x10	5	10	-1	100
Lithuania	20	15x15x15	20	20	20	500

The module will interpret the settings as following:

Line 1	If the customer from **Lithuania [TRUE]**, then set the base price as **10**. Is the weight of the order is less or equal than **10 kg [FALSE]**? If no, then add the overweight price to the base price. However if the overweight price is **-1 [TRUE]**, then check the next line of the table.	In a result the module will start from the beginning in the next table line.
Line 2	If the customer from **Lithuania [TRUE]**, then set the base price as **20**. Is the weight of the order is less or equal than **20 kg [TRUE]**?	In a result the shipping price is 20 and it is provided for courier delivery.

In the example above there are two ranges created by weight: from 0 to 10 and from 10 to 20 kilograms.

How to disable the courier shipping method if the package is overweight or oversized?

The section above is a good example of how the module code is checking the settings, now here is another example with the same conditions only the result won't allow the shipping method to be displayed on a checkout:

Country	Base shipping price	Max package size	Price for oversize	Max package weight	Price for overweight	Free shipping from
Lithuania	10	10x10x10	5	10	-1	100
Lithuania	20	15x15x15	-1	20	-1	500

Using the same logic the code won't stop in the second line of "Price for overweight" field. There is a "-1" entered, that means the weight feature is not being taken into account. The code will try to validate the package size, as a secondary validation feature. However it will find that it is also exceeded and it will try to check the oversize price. Unfortunately another "-1" won't allow doing that and there are no additional lines left for checking. In a result this shipping method will be skipped in the checkout.

Cash on Delivery and Pickup Points restrictions

If a merchant is planning to provide Cash On Delivery (COD in short) payment method they should know, that it can not be used with Pickup points shipping method. That is why they have to install a custom COD payment method provided by DPD.

Notice! Before enabling the custom COD payment module, the merchant should disable the standard one.

Things that are needed before installation

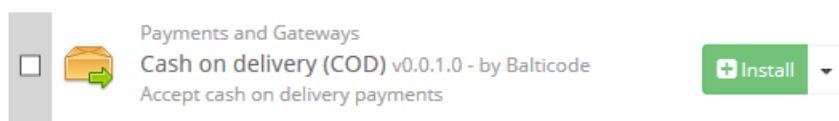The things which are needed before beginning the installation process:

- File upload software to a FTP server, such as FileZilla or others;

- The COD module package, which will be provided by DPD or software creators UAB "BaltiCode";

- Disable the standard or other COD payment methods if they are installed.

After all necessary things are set the installation process can be started.

Installation process

The installation process is being done from PrestaShop admin panel. Merchants should do the following actions:

- Login to the PrestaShop back end;
- Go to Modules and Services > Modules and Services;
- Click the "Add a new module" button;
- Then "Choose a file" button. After this action choose the module zip archive from the place where you downloaded it;
- "Upload this module" button. After this action a new module should appear in the list of modules:

- Click the "Install" button.
- In a new window please proceed by clicking "Proceed with the installation".

After last step the module configuration form is being displayed and the merchant can enter all necessary information.

Quick setup guide

COD payment method settings

The newly installed payment method should appear in the PrestaShop back-end: Modules and Services > Modules and Services > Payments and Gateways.

The merchants can configure the module according to their needs by reviewing the meaning of each setting in the table below:

Setting name	Available values	Setting description
Enabled	Yes/No	This setting enables the payment method.
Display Zero Fee	Yes/No	If this option is enabled then the COD payment method does not cost at all.
Title		The name of payment method which is being displayed on the Checkout.
Order Process		In this field a merchant can enter some explainary text for this payment method.
New order status		A list of order statuses is being populated in this

		field. Here a merchant can select which order status should be assigned after order with COD is approved by the customer.
Shipment to applicable countries	All Allowed Countries / Specific Countries	This setting defines if the module should work on all allowed countries or only specific ones.
Shipment to Specific countries	List of Countries	This setting is available only when "Shipment to applicable countries" is set to "Specific Countries" value.
Minimum Order Total		A numerical value which defines the minimum order sum according to which the COD can be provided to the customer. Blank field value disables this constraint.
Maximum Order Total		A numerical value which defines the maximum order sum according to which the COD can be provided to the customer. Blank field value disables this constraint.
Cost calculation	Fixed / Percent	Here a merchant can select how the COD price should be populated: • Fixed – provides the static value from "Costs" field. • Percent – percentage price for COD would be calculated according the order sum. Percentage values are being taken from "Costs" field.
Costs		A numerical value for fixed price or percentage price calculation from cart price.
Free from		In this field a price can be declared from which the payment method is free of charge.
Custom text for checkout page		Here an additional text can be entered which will be populated in the checkout page.
Disallow specific shipping methods	Yes/No	If this setting is enabled then the shipping methods selected in "Disallowed shipping methods" won't allow

Disallowed shipping methods	A list of enabled shipping methods	By holding a Ctrl or Cmd button on Mac a merchant can select the shipping methods. When a customer will select one of selected shipping method, the COD payment method will not be displayed on checkout.

After all these are done "Update settings" button should be pressed.

General information

Information about Pickup points

DPD is delivering parcels to the Pickup point only if they weight under 20 kilograms. That is why the module is designed in that way that if the parcel is heavier that 20 kilograms the shipping method will not be available.

Information about price selection logic in courier shipping method

A merchant should know the priority of price selection features. There are three features which define the shipping method price:

- The price by post code feature;

- The price by country table feature;

- Base price for each shipping method.

The best way for describing this logic is to define the starting conditions: the module is being set that "Package size restriction" and "Use delivery price by postcode" features are enabled. The module is prioritizing price configuration in this order:

1. First it will try to read the post code price definitions. If the price is not defined for customers shipping post code, then it will go to price by package size definitions;

2. In the package size definitions there is a list of defined countries with set prices. If customers shipping country is not found in those settings then the module will use the third option – base shipping method prices;

3. The base settings are the last point where the module will look up the prices. However if the setting "Ship to Applicable Countries" is set to "Specific Countries" and the customers shipping country is not on the selected list, then courier shipping method won't be listed in the checkout.

Is there a way of uninstalling the modules?

Just like other PrestaShop modules DPD shipping and/or COD restriction modules can be uninstalled from the system using standard uninstall procedure: <http://doc.prestashop.com/display/PS15/Managing+Modules+and+Themes#ManagingModulesandThemes-Uninstallingamodule>.

Troubleshooting

In case if the module is not working properly merchants are encouraged to contact their DPD service managers or the module makers UAB "BaltiCode":

- By phone +370 620 39718 or +370 620 39777

- By email support@balticode.com