DPD shipping module documentation

Magento module version 2.0





Table of Contents

Introduction	
Document version history	
Definitions	5
Added functionality	5
Use cases	2
System requirements	2
Magento requirements	
Third party libraries	
Installation guide	
Requirements and tips prior the installation process	
Installation process	
Quick Setup process	6
Module configuration form explained	6
General settings	6
Courier settings	
Settings for pickup points	0
Module configuration	10
Change the Manifest language	
How to setup prices according the post codes?	10
Creating a Post Codes import file	
How to setup the weight or size ranges for courier delivery?	
How to disable the courier shipping method if the package is overweight or oversized?	
Cash On Delivery and Pickup Points restrictions	
Things that are needed before installation	
Installation process	
Quick setup guide	
Setting the merchants Country	
COD payment method settings	
General information	
Information about Pickup points	
Information about price selection logic in courier shipping method	
Is there a way of uninstalling the module?	
Troubleshooting	
Appendix	
Appendix 1: List of files to be removed prior installing a new version of DPD module	20



Introduction

This document describes the ways, how to use the 2^{nd} edition of DPD Magento 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.

Document version history

Version	Date	Comments	Changed by
2.0.0	2015-09-17	Initial release	UAB "BaltiCode"
2.0.1	2015-10-01	Added section about COD and Pickup points restriction on page 13.	UAB "BaltiCode"
2.0.2	2015-10-14	Added "System requirements" and a notice in "Requirements and tips prior the installation process" sections.	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 Magento 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, Latvia and Estonia by selecting preferred location from select menu, where they wish to pick up ordered goods.
- Clients can use DPD courier service in Lithuania, Latvia and Estonia.
- Updates list of DPD Pickup points from DPD server assuming Magento 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 Magento admin.
- When DPD API communication contract exists, then Merchants can send parcel data to DPD server and print out DPD PDF shipping manifests from Magento admin.
- When DPD API communication contract exists, Merchants can call for courier to pick up goods from Magento 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.

• Merchant can use the Multi Parcel Shipment (MPS in short) service which allows to combine few same type orders into one shippment.

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 Magento 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.
- Merchants can combine several orders into one and create shipments out of it. The printed labels will be treated as part of that shipment.
- Merchants can use DPD's cash on delivery service because the module is supplied with additional payment method, created specially for DPD.

System requirements

The module requires a 5.4 PHP version.

Magento requirements

Current module works with following Magento versions: 1.4.x.x 1.5.x.x 1.6.x.x 1.7.x.x 1.8.x.x 1.9.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.

Merchants should also make sure that they have all connections to their FTP server and the software¹ for uploading the module.

You should receive the module packed in a zip archive which would contains the documentation PDF file, and the module installation folders.

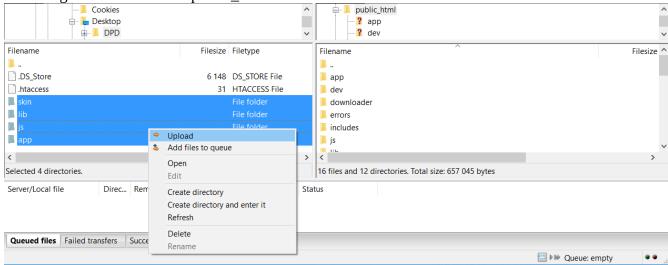
Please be aware, that module folders, sub-folders and their files are placed in the order they should appear in the e-commerce system folder structure. This means that the modules folder structure could not be changed.

Notice! Merchants should be aware that if they already have installed old DPD version from UAB "BaltiCode", they can not install a new one on top of it. It is best if the old module files would be removed prior installing the new one.

The list of files and folders is provided in Appendix 1: List of files to be removed prior installing a new version of DPD module.

Installation process

The installation process is being done by upload the module files into your e-shop root folder. Usually it is being called "www" or "public html".



This would be enough to have the module setup into your e-shop. However the back end of the system some times does not show up the module, so it is always good to flush Magento Cache. Merchants should do the following:

A good example could be FileZilla https://filezilla-project.org/>.



- Login to the Magento back end;
- Go to System > Cache Management;
- Click the "Flush Magento Cache" button.

If that does not show the new shipping method then a merchant can try to log out and login to the back end, that all appropriate templates would be recreated with new content.

Quick Setup process

After successful upload operation please proceed with following setup steps:

- 1. Log in to Magento admin panel.
- 2. Go to System > Configuration > Sales > Shipping Methods;
- 3. Choose the DPD;
- 4. In the "Global Enable" choose the "Yes" option;
- 5. 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).
- 6. Press "Save Config".

These are the minimum requirements for module to be functional, as the list of Pickup points is being pulled out from DPD API. However the merchant will have to enter the rest setup data.

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	
Global Enable	Yes/No	This setting enables the module.	
Username		Here the merchant can enter his/her user nam provided by a manager from DPD.	
Password		Here the merchant can enter password provided by a manager from DPD.	
ID		Here the merchant can ID provided by a manager from DPD.	
API URL		API URL provided by a manager from DPD.	
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.
Sender 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.
Sender address company		The text field for declaring the company name. It can be used in those cases if the merchant owns several eshops under different company names.
Sender address e-mail		E-shop email address
Sender address phone		Phone number
Sender address street		E-shop parcel pickup street name
Sender address city, county		E-shop parcel pickup city and county name
Sender address zip code		E-shop parcel pickup zip code name
Sender address country	List of countries	E-shop parcel pickup country name
VAT code		E-shop companies VAT code number
Current manifest nr		Provides a current manifest number.

Courier settings

Setting name	Available values	Setting description	
Courier Enable	Yes/No	Here it is possible to set whether to use courier shipping method or not.	
Tittle		This text will represent the shipping method tittle. It can be separate per store language.	
Price		Here a merchant can declare a base price for the shipping method.	
Free shipping	Yes/No	This setting enables or disables free shipping feature.	



Use delivery price by postcode	Yes/No	This setting can be seen only by selecting a shop in "Current Configuration Scope". 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.	
Price by CSV		This controller can be seen if the "Use delivery price by postcode" feature is enabled. Here a CSV file can be selected.	
Export		This controller can be seen if the "Use delivery price by postcode" feature is enabled. Here a CSV file can be exported from the systems database.	
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 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		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.	



		This value will be added to the calculated base 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 :: Max package weight		Here a merchant can declare the maximum package weight.
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.
Ship to Applicable Countries	All Allowed Countries/Specific Countries	This setting defines if the module should work on all allowed countries or only specific ones. Please note that if the "Package price calculation" or "Use delivery price by postcode" are enabled, then this setting is not working.
Ship to Applicable Countries :: Ship to Specific countries	List of countries	

Settings for pickup points

Setting name	Available values	Setting description
Parcel Store Enable	Yes/No	Here it is possible to set whether to use Pickup points shipping method or not.
Title		This text will represent the shipping method tittle. It can be separate per store language.
Price		Here a merchant can declare a base price for the shipping method.

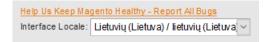


Free shipping	Yes/No	This setting enables or disables free shipping feature.		
Show long office names	Yes/No	If this feature is enabled the, the Pickup points are shown with their addresses.		
City priority		The name of a declared city, in this field will be pushed to the top of the Pickup points list in the checkout.		
Ship to Applicable Countries	All Allowed Countries/Specific Countries	This setting defines if the module should work on a allowed countries or only specific ones.		
Ship to Applicable Countries :: Ship to Specific countries	List of countries	Here the merchant can select which countries can serviced by DPD Pickup points. If the customer do not have the country from selected list, the shippi method is not being shown 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 Lithuanian then the administration panel should also be in the same language:



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?

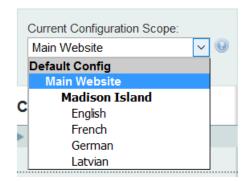
Each merchant can define separate prices for separate post code. Using a simple CSV configuration file they can set the new base price, weight and package size maximum, the price for overweight/oversize and free shipping price.

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. First select the a website from Configuration Scope in the upper left corner of administration panel:



- 2. Then go to e-shop system configuration menu and find the DPD shipping method: System > Configuration > Sales > Shipping Method > DPD.
- 3. 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.



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

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,,,,,,

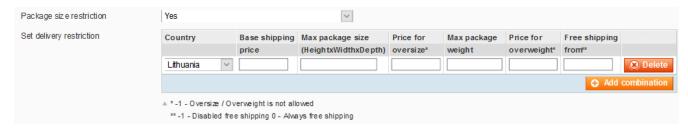


Bad: CSV file must contain the same ammount of values as in the firs line.

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.	In a result the module
	Is the weight of the order is less or equal than 10 kg [FALSE]? If no,	will start from the
	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.	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		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".

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

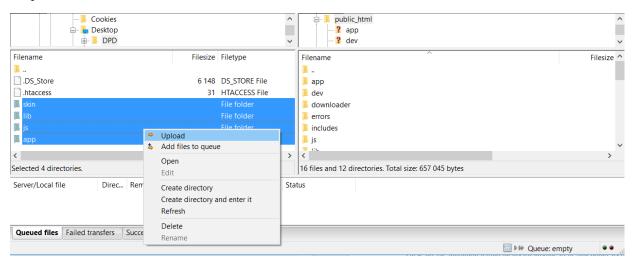
Installation process

The installation is the same as installing a DPD module, it goes as following:

- 1. Extract the COD restriction module package to a certain place in a computers hard drive;
- 2. Start the file upload program;



Upload the extracted module files to the root folder (it can be called "www" or "public_html") of e-shop:



- 4. After the upload, login to Magento shop back end;
- 5. Go to System > Cache Management;
- 6. Click the "Flush Magento Cache" button.

Sometimes it is good thing to log out and log in from the back-end, because the new Payment method user interface has not been created.

Quick setup guide

Setting the merchants Country

Before setting up the COD payment method a merchants must check if they have configured the e-shop origin country. To do that, they must act as following:

- 1. Login to Magento back-end;
- 2. Go to System > Configuration > Sales > Shipping settings > Origin;
- 3. Check if the "Country" value is the same as the merchants inland name:





If a new value has been set do not forget to save config.

COD payment method settings

The newly installed payment method should appear in the Magento back-end: System > Configuration > Sales > Payment Methods > Cash on Delivery.

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.
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.
Sort order		A numerical value which will tell the sort order for COD payment method.
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	List of Countries	This setting is available only when "Shipment to



countries		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 for inland shipping" or "Costs for shipping to foreign countries" fields		
		 shipping to foreign countries" fields. Percent – percentage price for COD would be calculated according the order sum. Percentage values are being taken from "Costs for inland shipping" or "Costs for shipping to foreign countries" fields. The order sum is being taken from "Cost calculation base" field. 		
Cost calculation base		This setting is available only when "Cost calculation" is set to "Percent" value.		
Costs for inland shipping		A numerical value for fixed price or percentage price calculation. This value will be taken if the customers address country will be the same as in shop origin country (see the "Setting the merchants Country" section for more details).		
Costs for shipping to foreign countries		A numerical value for fixed price or percentage price calculation. This value will be taken if the customers address country will not be the same as shop origin country.		
Custom text for checkout page		Here an additional text can be entered which will be populated in the checkout page.		

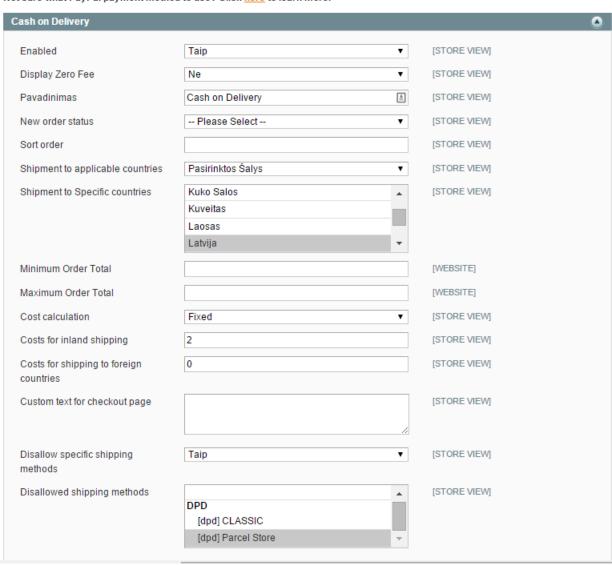


Disallow specific shipping methods	Yes/No	If this setting is enabled then the shipping methods selected in "Disallowed shipping methods" won't allow
Disallowed shipping methods	A list of enabled shipping methods	By holding a Ctrl or Cmd button on Mac a merchant can select the shipping methods. When a customer will select one of selected shipping method, the COD payment method will not be displayed on checkout.

Payment Methods



Not sure what PayPal payment method to use? Click here to learn more.





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 module?

Just like other Magento modules DPD shipping module can not be uninstalled from the system. The merchant only can disable it "Global Enable" setting (please check the "General settings" section).

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 <u>support@balticode.com</u>





Appendix

Appendix 1: List of files to be removed prior installing a new version of DPD module.

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\app\design\adminhtml\default\layout\balticode_dpdlt.xml \app\design\adminhtml\default\layout\balticode_livehandler.xml \app\design\adminhtml\default\layout\balticode_postoffice.xml \app\design\adminhtml\default\default\template\balticode_dpdlt \app\design\adminhtml\default\default\template\balticode_postoffice \app\design\adminhtml\default\default\template\balticode_dpdlt\order \app\design\adminhtml\default\default\template\balticode_dpdlt\order\courier.phtml \app\design\adminhtml\default\default\template\balticode_postoffice\shipping method form.phtml

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\app\etc\modules\Balticode_DpdLT.xml \app\etc\modules\Balticode_Livehandler.xml \app\etc\modules\Balticode_Postoffice.xml

\app\locale\en_US\Balticode_DpdLT.csv \app\locale\en_US\Balticode_Livehandler.csv \app\locale\en_US\Balticode_Postoffice.csv \app\locale\lt_LT\Balticode_Livehandler.csv \app\locale\lt_LT\Balticode_Postoffice.csv \app\locale\lv_LV\Balticode_Dpd.csv



\app\locale\lv_LV\Balticode_Livehandler.csv \app\locale\lv_LV\Balticode Postoffice.csv

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\media\dpd

\skin\adminhtml\default\default\balticode_admintools.css \skin\adminhtml\default\default\balticode dpdlt.css

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