



M2



## **DISTANCE BASED SHIPPING**

### **USER GUIDE**

**Version 1.0.0**



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### 1. Intended Audience

The content of this document is designed to facilitate the users - managers, supervisors, and others of **Distance Based Shipping** Extension for Magento 2. Step by step instructions have been added to this document to help users to configure and use the extension.

This extension will only work on Magento 2. As a safe practice, always backup your files and database before installing any extension on Magento. If you are looking for someone to install the extension, we can do it for you as well. Just contact our [support team](#) and let them know the order id to expedite the installation process.

Once you have installed, please see this User Guide to help you understand how to use the extension to its full capacity. If you still have questions, feel free to contact us on our website.

### 2. About Extension

Shipping is an integral part of your customer's sales journey. It should be optimized and not hurt your profit margin. At the same time, it also should not stop customers from buying your products because of high shipping costs.

The default shipping methods in Magento 2 are not optimized enough as they charge the same amount regardless of customer's shipping destinations. This strategy sometimes goes in the customer's favor and other times in store owner's favor depending upon the customer's shipping location.

A more optimized shipping strategy would be to charge customers based on the distance between their shipping locations and the store's warehouse location. The longer the distance, the higher the cost of shipping. This is a win-win for both customers and merchants and this is what the Distance Based Shipping Extension is meant for. **It allows you to create a custom shipping method in which shipping charges will be calculated according to the customer's shipping location from the warehouse.**



### 3. Configuration

#### 3.1 General Settings

On the admin sidebar, go to **FME EXTENSIONS > Configuration**. Here you will find the following options.

- **Enabled:** Select 'Yes' to Enable or 'No' to Disable the module.
- **Title:** Give a custom title to the new shipping method. This will be displayed on frontend in the list of shipping methods.
- **Google Map API key:** Enter the Google map API key to auto calculate distance from the warehouse to the shipping destination for the distance-based shipping amount calculation. See the image below to know how to create the Google Map API Key.
- **Admin Location:** Enter your warehouse location.



## Distance Based Shipping-FME Extensions

Enabled  
[website]

Yes

Title  
[store view]

Best Value

Google Map API key  
[store view]

AlzaSyDtsTdJad7bNfdTNnwjCnj1zH1\_AirljDk

Go to the [Google Cloud Platform Console](#). Click the menu button and **select APIs & Services > Credentials**. On the **Credentials** page, click **Create credentials > API key**.

Admin Location  
[store view]

349 Street 1, I-9/3 I 9/3 I-9, Islamabad, Islamabad  
Capital Territory 44000, pk

Address Format must be like (' **House Number, Street Direction, Street Name, Street Suffix, City, State, Zip, Country Code** ') for better results

- **Admin Latitude:** This field is loaded automatically from Admin location using Geocoding API.
- **Admin Longitude:** This field is loaded automatically from Admin location using Geocoding API.
- **Distance Unit:** Select one of the following distance units to calculate distance
  - Kilometer and feet
  - Mile and meter
- **Shipping Cost:** Select one of the following shipment methods to suggest cost.
  - By Air
  - By Road
- **Displayed Error Message:** Enter an error message to display if this shipping method is not available for the country/region the user specified.



## FME Extensions

- **Show Method if Not Applicable:** Select 'Yes' to show the distance based shipping method even if it's not applicable.
- **Sort Order:** Set sort order for this new shipping method.

<b>Admin latitude</b> [store view]	<input type="text" value="33.6606821"/>
Latitude will be automatically calculated from admin address using Geo Coding Api	
<b>Admin longitude</b> [store view]	<input type="text" value="73.0591122"/>
Longitude will be automatically calculated from admin address using Geo Coding Api	
<b>Distance Unit</b> [store view]	<input type="text" value="Mile and meter"/> ▼
<b>Shipping Cost</b> [store view]	<input type="text" value="By Air"/> ▼
<b>Displayed Error Message</b> [store view]	<div>Distance-based shipping is not available for this location. To use this shipping method, please contact us.</div>
<b>Show Method if Not Applicable</b> [website]	<input type="text" value="Yes"/> ▼
<b>Sort Order</b> [website]	<input type="text" value="2"/>



## 3.2 Add Shipping Rule

To make the extension work, you need to add rule(s). To do so, navigate to **FME EXTENSIONS** from the left sidebar and click **Manage Shipping Rules**. Now click **Create New Rule** to see the following options.

- **Enable Shipping Rule:** Toggle the button to Enable/Disable the rule.
- **Rule Title:** Give a title to the rule. This will display on frontend
- **Rule Priority:** Set priority for the rule. This helps if you have created multiple rules and want them to be executed in order. Lower the number, higher the priority.
- **From & To:** Set a duration for the rule by specifying the starting and ending date. The rule will only work within this time period.
- **Store View:** Select Store view(s) you want the rule to apply to.

Enable Shipping Rule

☒ Yes

Rule Title \*

Distance Based

Rule Priority \*

1

From \*

10/14/2021

To \*

11/30/2024

Store View \*

All Store Views

Main Website

Main Website Store

Default Store View



## 3.3 Define Distance & Shipping Cost

Under Shipping Distance, you can see the following options.

- **Cost Shipping:** Select whether you want to charge shipping per item or for the whole Cart.
- **Cost Distance:** Select whether you want to charge a fixed shipping cost or per unit
- **Distance From:** Set minimum distance
- **Distance To:** Set maximum distance
- **Cost:** Set shipping cost

The **Distance From** and **Distance To** fields define the distance range and the **Shipping Cost** field defines the shipping cost for that range. In the example below, the shipping cost is \$20 if the shipping distance is between 1 and 100 kilometers.

**Shipping Distance**

**Cost Shipping \***

**Cost Distance \***

**Tier Shipping Cost**

	<b>Distance From *</b>	<b>Distance To *</b>	<b>Shipping Cost *</b>	<b>Actions</b>
	<input type="text" value="0"/>	<input type="text" value="100"/>	<input type="text" value="20"/>	
	<input type="text" value="101"/>	<input type="text" value="500"/>	<input type="text" value="40"/>	
	<input type="text" value="501"/>	<input type="text" value="10000"/>	<input type="text" value="50"/>	
<input type="button" value="Add"/>				





## 3.4 Select Customer Group/Customers

Under the **Select Customer Group/Customers** section, you will find the following options. This section allows you to apply the rule to specific customers or customer groups i.e. the rule will only work for customers/customer groups you select.

- **Apply Rule Based On:** Select one of the following options.
  - Customer Groups
  - Customers
- **Customer Groups:** Select the customer group(s) you want to apply the rule to.
- Under **Select Customers**, click **Reset Filter** and select the customer(s) you want to apply the rule to.

Select Customer Group/Customers

Apply Rule Based On \*

Customer Groups

Customer Groups

NOT LOGGED IN  
General  
Wholesale  
Retailer

Select Customers

Search

Reset Filter

1 records found

20 per page

1 of 1

	ID	First Name	Last Name	Full Name	Email	Store	Customer Group
Any							
<input type="checkbox"/>	2	Veronica	Costello	Veronica Costello	roni_cost@example.com	Default Store View	General

## 3.5 Set Conditions

The conditions section allows you to set conditions that will trigger the rule. You can use different shipping attributes i.e. shipping region, shipping postcode, shipping country etc. to set conditions. In this example, we will use Pakistan as the shipping country. This means we want to charge customers a shipping fee based on their distance in Pakistan from our warehouse location which is also in Pakistan. When this condition is met i.e. when a customer specifies Pakistan as her/his shipping destination, the rule will apply and the distance based shipping charges will display. You can target as many countries as you want.



If no condition is set, the rule will apply for all countries.

Conditions

Apply the rule only if the following conditions are met (leave blank for all products).

If ALL of these conditions are TRUE :  
Shipping Country is Pakistan

### Refresh Cache

- **Refresh the Cache:** System > Cache Management > Select **All** from **Mass Actions** > Click **Refresh the Cache**.

## 4. Steps to Follow

You need to follow these steps to configure the extension and make it work.

1. Login to your admin panel
2. On the left sidebar, click **FME Extensions > Configuration**
3. Configure all the options and click **Save Config**.
4. Navigate to **FME Extensions > Manage Shipping Rules**
5. Click **Create New Rule** to add a new rule or select **Edit** to edit an existing rule from the grid.
6. Configure all the options and **Save Configurations**
7. **Flush Cache**

## 5. Distance Based Shipping On Frontend

Once you have done all the configurations, you can see distance-based shipping rates extension enabled on the frontend. After adding products to cart and providing the shipping destination, Google Maps API calculates the distance between your admin



location and the customer's shipping location and shows the shipping cost. Once this shipping method is selected, the respective shipping rate will be applied on the order.

### 5.1 Distance Based Shipping in Shipping Methods

Country \*

Pakistan

State/Province

Punjab

City \*

Lahore

Zip/Postal Code \*

42000

Phone Number \*

03315959432

?

Shipping Methods


☐ \$5.00 Fixed Flat Rate

☒ \$20.00 Distance Based (166.53 km Fixed Price USD 20.000) Best Value

Next



## 5.2 Distance Based Shipping on Checkout Page

Sign In

Shipping

Review & Payments

Payment Method

Check / Money order

☒ My billing and shipping address are the same

Zafar Ali  
House # 256, Street 10, Multan Road  
Lahore, Punjab 42000  
Pakistan  
03315959432

Place Order

Order Summary

Cart Subtotal

\$74.00

Shipping

Best Value - Distance Based (166.53 km Fixed Price USD 20.00)


\$20.00

Order Total

\$94.00

1 Item in Cart

^



Aether Gym Pant  
Qty: 1  
\$74.00  
View Details ^

## 5.3 Distance Based Shipping in 'My Account'

My Account

My Orders

My Downloadable Products

My Wish List

Address Book

Account Information

Stored Payment Methods

My Product Reviews

Newsletter Subscriptions

Compare Products

You have no items to compare.

Recently Ordered

☐ Aether Gym Pant

Order # 000000004

PENDING

October 15, 2021

Reorder

Print Order

Items Ordered

Product Name	SKU	Price	Qty	Subtotal
Aether Gym Pant	MP11-34-Brown	\$74.00	Ordered: 1	\$74.00
Size	34			
Color	Brown			

Subtotal

\$74.00

Shipping & Handling

\$20.00

Grand Total

\$94.00



## Order Information

### Shipping Address

Zafar Ali  
FME  
House # 256, Street 10, Multan  
Road  
Lahore, Punjab, 42000  
Pakistan  
T: 03315959432

### Shipping Method

Best Value - Distance Based (166.53  
km Fixed Price USD 20.00)

### Billing Address

Zafar Ali  
FME  
House # 256, Street 10, Multan  
Road  
Lahore, Punjab, 42000  
Pakistan  
T: 03315959432

### Payment Method

Check / Money order

## 6. Disclaimer

It is highly recommended to back up your server files and database before installing this module. No responsibility will be taken for any adverse effects occurring during installation.

It is recommended you install on a test server initially to carry out your own testing.