

amasty

For more details see the [Multi Warehouse Inventory](#) extension page.

Guide for Multi Warehouse Inventory for Magento 2

Easily create multiple warehouses with Multi Warehouse Inventory for Magento 2. Conveniently manage stock right from the product grid. Utilize a smart algorithm to automatically choose a proper warehouse for delivery.

- Create as many warehouses as you need
- Manage and update Magento inventory right from a grid
- Minimize shipping costs with a smart algorithm
- Create shipments in one click
- Configure custom shipping methods and rates

Configure General Settings

To configure extension settings, please go to **Stores → Configuration → Amasty Extensions → Advanced MSI**.

General Settings

General Settings



Enable Module <small>[global]</small>	<input type="text" value="Yes"/>
	<input checked="" type="checkbox"/>
	<input type="checkbox"/>

Minimal Delivery Cost Algorithm Settings



Automatic Source Selection & Shipping Cost Calculating



Enable Module - choose **Yes** to enable the extension.

Notice, that the extension works on Magento 2.3 version and higher. [Contact us](#), if your Magento version is 2.2 or lower.

Minimal Delivery Cost Algorithm Settings

With the extension, you can customize the algorithm of a source (warehouse) selection. In this tab, you can define the automatic warehouse selection algorithm that will be used when one product is assigned to multiple sources.

Minimal Delivery Cost Algorithm Settings

Default Source Selection Algorithm [global] Combined Source Selection Algorithm ?

- Distance Priority
- Source Priority
- Product Stock Availability by Amasty
- Combined Source Selection Algorithm**

Criteria Prioritization for Combined Algorithm [global] ?

Criteria	Active
Nearest Source	Yes ▼
Available in One Source	Yes ▼
Source Priority (Native Algorithm)	Yes ▼

Distance to Warehouse Round off, Km [global]

Default Source Selection Algorithm - the module provides 4 Source Selection Algorithms:

- **‘Source priority’** - selects an optimal warehouse according to its priority in the stock assignment settings block.
- **‘Product Stock Availability by Amasty’** - chooses the source that has all order items in stock. It is useful if you want to avoid breaking the order into several shipments from different sources.
- **‘Product Stock Distance by Amasty’** - automatically selects the warehouse nearest to a customer.

- **‘Combined Source Selection Algorithm’** - it is a custom completely new algorithm, that uses 3 criteria above one by one until the ‘perfect match’ is found.

After you select one of the algorithms it will be immediately applied to the ordered items on the shipment creation page.

Criteria Prioritization for Combined Algorithm - use drag and drop to set the priority of each criterion.

How it works:

The algorithm will apply the upper criteria first. If the result consists of several sources that fit the condition of the first criteria, the list of these several warehouses will be transferred to the next lower criteria for processing. The sources that don't fit the first criteria will not be processed by the second one. But they will be available on the shipment creation page with lower priority.

Distance to warehouse round off, km - add the distance value that will be used in the Amasty ‘Combined Source Selection Algorithm’. If the distance between the closest and other warehouses is less than the value, the warehouses are considered to be equally distant from the customer.

Automatic Source Selection & Shipping Cost Calculating

Automatic Source Selection & Shipping Cost Calculating

Enable Automatic Source Selection
[global]

Yes



Enable Automatic Source Selection - choose **Yes** to enable the chosen algorithm as soon as a buyer places an order. The warehouse for shipment will be selected automatically and displayed to a customer with a shipping cost information. This option allows using shipping services (like UPS, USPS, FedEx, DHL). The origin sources will be chosen during order creation, and a customer will be charged for the shipping costs immediately on the checkout page. Shipping costs will be calculated for each source (warehouse) depending on its address and then summarized.

Please keep in mind, that Shipping(s) for an order will be created immediately after a click on 'Ship' button on the order details page in the admin area.

If this option is enabled, you won't be able to change items' quantity in the admin panel. But you will see all the information about the order and its shipment in the **Order View** section.

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← Back

Print

Save

Inventory

Source: Chicago Warehouse

Items Shipped

Product	Qty Shipped
Complete Track Tote SKU: 24-WB02	1

Manage All Sources in a Grid

Note that sources are your **warehouses**. To let the extension work you need to create at least 2 sources.

Sources are the physical locations where product inventory is managed. They can include warehouses, offline stores, distribution centers, drop shippers, etc.

To manage sources, please go to **Manage Sources** menu from the admin panel. Easily track your sources by code, name, and status. The module allows you to **Edit** existing sources and **Add** a new one via the button **Add New Source**.

Manage Sources

Add New Source

Search by keyword



Filters



Default View



Columns

5 records found

20



per page



1

of 1




<input type="checkbox"/>	Code	Name	Is Enabled	Action
<input type="checkbox"/>	Berlin	Berlin Warehouse	Enabled	Edit
<input type="checkbox"/>	Chicago	Chicago Warehouse	Enabled	Edit
<input type="checkbox"/>	default	Default Source	Enabled	Edit
<input type="checkbox"/>	London	London Warehouse	Enabled	Edit
<input type="checkbox"/>	Moscow	Moscow Warehouse	Enabled	Edit

Note, that sources can't be removed to avoid order data loss. Also, the code of the source can't be changed. But you can disable sources and edit the related info, including location and contacts.

Easily Create a New Source

To create a warehouse, click the **Add New Source** button and fill in all the needed info about a warehouse.

[← Back](#) [Reset](#) [Save & Continue](#) ▼

General 

Name *

Code *

Is Enabled Yes

The Default Source must be enabled. A default source is required for single source merchants and product migration.

Description

Latitude

Longitude

Low Stock Notification

Shipment Email Notification

Specify an appropriate email in the fields **Low Stock Notification** and **Shipment Email Notification**. Thus you'll get notifications when an item should be shipped from a particular warehouse and on an item low stock situation.

Add the source contact information and address data.

For admin convenience, *Source name* and *Source Address* will be displayed in the header of Low Stock Email notification.

Contact Info

Contact Name	<input type="text" value="Bastian"/>
Email	<input type="text" value="Bastian@berlin.com"/>
Phone	<input type="text" value="+49 30 902 77 31 01"/>
Fax	<input type="text" value="+49 30 902 77 31 01"/>

Address Data

Country *	<input type="text" value="Germany"/>
State/Province	<input type="text" value="Berlin"/>
City	<input type="text" value="Berlin"/>
Street	<input type="text" value="Genslerstraße 84, Berlin"/>
Postcode *	<input type="text" value="13359"/>

Now you can assign products to a source and adjust quantity. Click **Add Products to Source** button to add new items. Edit product quantity right from the grid. Save your time choosing multiple products and change their status via mass action. Quickly pick the needed items via filters. Here you may also specify the **low stock** quantity: you'll automatically get a notification when the product quantity reaches this number.

Products in Source



Add Products to Source

Filters | Default View | Columns

Actions | 22 records found (2 selected) | 20 per page | 1 of 2

ID	Thumbnail	Name	Source Item Status	Qty	Notify Low Qty	Status	Type	SKU	Action
			All in Column	All in Column	All in Column				
<input checked="" type="checkbox"/>		Joust Duffle Bag	In St	53	<input type="text" value="1"/> <input checked="" type="checkbox"/> Use Default Value	Enabled	simple	24-MB01	
<input checked="" type="checkbox"/>		Strive Shoulder Pack	In St	50	<input type="text" value="1"/> <input checked="" type="checkbox"/> Use Default Value	Enabled	simple	24-MB04	
<input type="checkbox"/>		Crown Summit Backpack	In Stock	0	<input type="text" value="1"/>	Enabled	simple	24-MB03	Remove

The extension provides you with the capability to adjust shipping methods settings for each source. You may fill in a custom amount, or use **Shipping Provider Rate**.

Custom Shipping Methods and Rates

Flat Rate

Fixed

Use Shipping Provider Rate

Best Way

Table Rate

Use Shipping Provider Rate

Note, that if you use the **fixed cost** for the shipping method, all predefined shipping calculations for this source will be **overridden** with this fixed amount.

Save the source.

Link Sources to Sales Channels

Stocks enable you to unite several sources and then link them to sales channels and salable quantities. Technically, stocks represent a virtual, aggregated inventory of products available for sale to your sales channels (currently these are websites). Each stock maps your sales channels with sources for available inventories and salable quantities. Depending on your site configuration, the stock may be assigned to one or more sales channels and sources. Through the stock, you can modify the prioritization of sources used when shipping orders and by the **Source Selection Algorithm**.


You start with a **Default Stock** assigned with the **Default Source** and your website, best used by Single Source merchants. Only the Default Source can be assigned to this stock. **Multi-Source merchants** create custom stocks for custom sources and websites as needed. You can easily do it with the help of our Magento 2 Multi Warehouse Inventory extension.

To assign sources to stocks, please go to **Manage Stocks** tab.

Manage Stock

[Add New Stock](#)



 Filters



 Default View ▾

 Columns ▾

Actio... ▾

3 records found

20 ▾ per page

 1 of 1 

<input type="checkbox"/>	ID ↓	Name	Sales Channels	Assigned sources	Action
<input type="checkbox"/>	1	Default Stock		Default Source (default)	Edit
<input type="checkbox"/>	2	Main Stock	website Main Website (base)	Berlin Warehouse (Berlin) Chicago Warehouse (Chicago) London Warehouse (London) Moscow Warehouse (Moscow)	Edit
<input type="checkbox"/>	3	Singapore Stock	website Singapore Website (singapore)	Singapore Warehouse (Singapore)	Edit

Choose a necessary stock and press the **Edit** button.


General

Name *

Sales Channels

Websites

<input checked="" type="checkbox"/>	Main Website
<input type="checkbox"/>	Singapore Website



Use Ctrl+Click for check several values or uncheck value. All unassigned sales channels will be assigned to the Default Stock.

Name - specify the name for your stock.

Sales Channels - specify the sales channel. Sales channels represent entities selling your inventory, including websites and store views. Each sales channel can be assigned only to a single stock, and a single stock can be assigned to multiple websites. After you specify the Sales Channel, any previous assignation would be removed for each selected Sales Channel. Use **Ctrl+Click** to check several values or uncheck value. All unassigned sales channels will be assigned to the Default Stock.

Now, please scroll to the **Sources** tab and assign sources to the stock. Easily change sources priority via drag and drop. The priority is used by the 'Source priority' algorithm.

Assign Sources

Assigned Sources	Code	Name	Unassign
	Berlin	Berlin Warehouse	
	Chicago	Chicago Warehouse	
	London	London Warehouse	
	Moscow	Moscow Warehouse	

Manage Inventory From Product Grid

With the Multi Warehouse Inventory for Magento 2, you can assign items to a warehouse and manage the stock from the product grid. To do this, please go to **Catalog → Products**.

Products

admin

Add Product

Filters Default View Columns

Search by keyword

Actions 2046 records found

20 per page 1 of 103

ID	Thumbnail	Name	Type	Attribute Set	SKU	Price	Quantity per Source	Salable Quantity	Visibility	Status	Websites	Action	Edit Stock
1		Joust Duffle Bag	Simple Product	Bag	24-MB01	\$34.00	Berlin Warehouse: 53 Chicago Warehouse: 0 London Warehouse: 12 Moscow Warehouse: 4	Main Stock: 78	Catalog, Search	Enabled	Main Website	Edit	Edit Stock
2		Strive Shoulder Pack	Simple Product	Bag	24-MB04	\$32.00	Berlin Warehouse: 50 Chicago Warehouse: 20 Default Source: 100 London Warehouse: 48 Moscow Warehouse: 80	Main Stock: 208 Default Stock: 110 Singapore Stock: 69	Catalog, Search	Enabled	Main Website	Edit	Edit Stock
3		Crown Summit Backpack	Simple Product	Bag	24-MB03	\$38.00	Berlin Warehouse: 0 Default Source: 100	Main Stock: 10 Default Stock: 110	Catalog, Search	Enabled	Main Website	Edit	Edit Stock
4		Wayfarer Messenger Bag	Simple Product	Bag	24-MB05	\$45.00	Berlin Warehouse: 20 Default Source: 100 London Warehouse: 7 Moscow Warehouse: 15 Singapore Warehouse: 5	Main Stock: 52 Default Stock: 110 Singapore Stock: 15	Catalog, Search	Enabled	Main Website	Edit	Edit Stock

Click **Edit** to edit the stock quantity for each source in the product settings.

Joust Duffle Bag





Sale No
[global]

Sources

Assign Sources

Advanced Inventory

Assigned Sources

Source Code	Name	Source Status	Source Item Status	Qty *	Notify Quantity	Notify Quantity Use Default	Unassign
Berlin	Berlin Warehouse	Enabled	In Stock	53	1	<input checked="" type="checkbox"/>	
Chicago	Chicago Warehouse	Enabled	In Stock	0	1	<input checked="" type="checkbox"/>	
London	London Warehouse	Enabled	In Stock	12	1	<input checked="" type="checkbox"/>	
Moscow	Moscow Warehouse	Enabled	In Stock	4	1	<input checked="" type="checkbox"/>	

Hit the button **Edit Stock** on the grid to quickly adjust the product stock for each warehouse in a convenient pop-up window.



Edit Stock for Joust Duffle Bag

<input type="checkbox"/>	Name	Source Item Status	Quantity	Notify Qty	Action
<input checked="" type="checkbox"/>	Berlin Warehouse	In Stock <input type="text" value="In Stock"/>	<input type="text" value="53"/>	<input type="text" value="1"/> <input checked="" type="checkbox"/> Use Default Value	
<input type="checkbox"/>	Chicago Warehouse	In Stock			Edit
<input type="checkbox"/>	Default Source	In Stock	0	1	Edit
<input type="checkbox"/>	London Warehouse	In Stock	12	1	Edit
<input type="checkbox"/>	Moscow Warehouse	In Stock	4	1	Edit
<input type="checkbox"/>	Singapore Warehouse	In Stock	0	1	Edit
<input type="checkbox"/>	Singapore Warehouse 2	In Stock	0	1	Edit




[Cancel](#) [Save](#)

Close

You can also easily **edit products in bulk** right from the grid. Just select the products you need via filters and specify the **Action** you need: Delete, Change Status, Assign Inventory Source, Unassign Inventory Source, Transfer Inventory To Source.

Search by keyword

2046 records found (6 selected) 20

Thumbnail	Name	SKU	Price	Quantity per Source	Salable Quantity		
	Joust Duffle Bag	24-MB01	\$34.00	Berlin Warehouse: 53 Chicago Warehouse: 0 London Warehouse: 12 Moscow Warehouse: 4	Main Stock: 78		
<input checked="" type="checkbox"/>	2		Strive Shoulder Pack	24-MB04	\$32.00	Berlin Warehouse: 50 Chicago Warehouse: 20 Default Source: 100 London Warehouse: 48 Moscow Warehouse: 80	Main Stock: 208 Default Stock: 110 Singapore Stock: 69
<input checked="" type="checkbox"/>	3		Crown Summit Backpack	24-MB03	\$38.00	Berlin Warehouse: 0 Default Source: 100	Main Stock: 10 Default Stock: 110

Create Shipments Quickly

To create a shipment, please go to **Sales → Orders**. Then choose a necessary order and hit the **View** button.

#000000003

admin

← Back Cancel Send Email Hold Invoice **Ship** Reorder Edit

- ORDER VIEW
- Information
- Invoices
- Credit Memos
- Shipments
- Comments History

Order & Account Information

Order # 000000003 (The order confirmation email was sent)

Order Date	Feb 1, 2019, 8:52:35 AM
Order Status	Pending
Purchased From	Main Website Main Website Store Default Store View
Placed from IP	213.184.226.82

Account Information

Customer Name	Guest
Email	example@order.com
Customer Group	NOT LOGGED IN

Address Information

Billing Address [Edit](#)

Jean Renoir
Le Meurice 228 rue de Rivoli, 75001
Paris, 75001
France
T: 00 33 1 40 00 00 00

Shipping Address [Edit](#)

Jean Renoir
Le Meurice 228 rue de Rivoli, 75001
Paris, 75001
France
T: 00 33 1 40 00 00 00

Please click the **Ship** button to open a shipment creation page.

Source Selection

← Back **Proceed to Shipment** **Source Selection Algorithm** ▲

Select a Source to Ship from

Source * London Warehouse ▼

- Distance Priority
- Source Priority
- Product Stock Availability by Amasty**
- Combined Source Selection Algorithm

Items Ordered

< 1 of 1 >

Product	SKU	Qty To Ship	Available Sources												
Compete Track Tote	24-WB02	1	<table border="1"><thead><tr><th>Source</th><th>Qty Available</th><th>Qty To Deduct *</th></tr></thead><tbody><tr><td>London Warehouse</td><td>18</td><td><input type="text" value="1"/></td></tr><tr><td>Moscow Warehouse</td><td>9</td><td><input type="text" value="0"/></td></tr><tr><td>Chicago Warehouse</td><td>32</td><td><input type="text" value="0"/></td></tr></tbody></table>	Source	Qty Available	Qty To Deduct *	London Warehouse	18	<input type="text" value="1"/>	Moscow Warehouse	9	<input type="text" value="0"/>	Chicago Warehouse	32	<input type="text" value="0"/>
			Source	Qty Available	Qty To Deduct *										
			London Warehouse	18	<input type="text" value="1"/>										
			Moscow Warehouse	9	<input type="text" value="0"/>										
Chicago Warehouse	32	<input type="text" value="0"/>													
Joust Duffle Bag	24-MB01	1	<table border="1"><thead><tr><th>Source</th><th>Qty Available</th><th>Qty To Deduct *</th></tr></thead><tbody><tr><td>London Warehouse</td><td>12</td><td><input type="text" value="1"/></td></tr><tr><td>Moscow Warehouse</td><td>4</td><td><input type="text" value="0"/></td></tr><tr><td>Berlin Warehouse</td><td>53</td><td><input type="text" value="0"/></td></tr></tbody></table>	Source	Qty Available	Qty To Deduct *	London Warehouse	12	<input type="text" value="1"/>	Moscow Warehouse	4	<input type="text" value="0"/>	Berlin Warehouse	53	<input type="text" value="0"/>
			Source	Qty Available	Qty To Deduct *										
			London Warehouse	12	<input type="text" value="1"/>										
Moscow Warehouse	4	<input type="text" value="0"/>													
Berlin Warehouse	53	<input type="text" value="0"/>													

The module automatically chooses the default source selection algorithm, determines the optimal warehouse and the number of products to be shipped.

If the automatic shipping cost calculation is enabled, the module will choose the necessary source while a customer creates an order. If this functionality is disabled, you can change the source selection algorithm right from this page and change the quantity to deduct from each source.

Press **'Proceed to Shipment'** button and ship the order.

Import Data

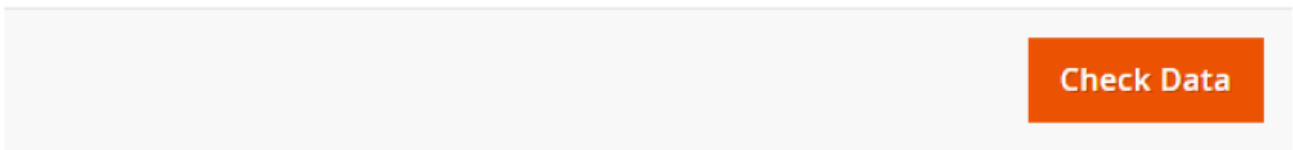
Fill product quantities in a sample file and quickly import stocks for each source.

To do this go to **System → Import**. In the Entity Type choose **‘Stock Sources’**, then download and fill in a sample file.

Decide whether you want to update, replace or delete data by configuring **‘Import Behavior’**.

Set import configuration to stop import on any number of errors to prevent loading broken data or skip error entries.

Then choose a file to import (already filled in sample file) and press the **‘Check Data’** button.



Import Settings

Entity Type *

Import Behavior

Import Behavior *

*

Allowed Errors Count *

Please specify number of errors to halt import process

Field separator *

Multiple value separator *

Empty attribute value constant *

Fields enclosure

File to Import


Select File to Import * stock_sources (2).csv


Images File Directory

For Type "Local Server" use relative path to Magento installation, e.g. var/export, var/import, var/export/some/dir

Correct the mistakes and press the **'Import'** button to import stock data.

Validation Results

 Checked rows: 4, checked entities: 4, invalid rows: 0, total errors: 0

 File is valid! To start import process press "Import" button

Make sure that you don't change a sample file structure and that a file isn't more than 2M.

Export Data


To export needed stock data, please navigate to the **System → Export** tab.

Entity Type - choose **Stock Sources**.

Export File Format - **CSV** format is needed.

You may also exclude particular attribute values from the exporting if needed. In the **Entity Attributes** table tick the attribute columns you want to exclude and hit the **Continue** button.

Export

 demouser ▾

Export Settings

Entity Type

Export File Format

Fields Enclosure

Entity Attributes

Search

[Reset Filter](#)

4 records found

Exclude	Attribute Label	Attribute Code ↓	Filter
	<input type="text"/>	<input type="text"/>	
<input type="checkbox"/>	source_code	source_code	<input type="text"/>
<input type="checkbox"/>	sku	sku	<input type="text"/>
<input type="checkbox"/>	status	status	-- Not Selected -- ▾
<input type="checkbox"/>	quantity	quantity	From: <input type="text"/> To: <input type="text"/>

On Nov 18, 2019, **we've significantly updated the Multi Warehouse Inventory** extension. You can easily migrate your data from the old version of MWI to the Advanced MSI extension or Updated MWI. Please follow the instructions below.

Export From Old MWI and Import to Magento Inventory Management / Updated MWI

Before to start the data migration, please make sure, that all-important fields in the MWI (warehouse info) are filled in correctly: Warehouse Name, Warehouse Code, Country, Postcode. The data export from the Multi Warehouse Inventory can be performed only via conventional export **System → Export**.

If you exported or imported only a part of warehouses and need to Export/Import the rest, please note, that **source_codes** may not match. In this case, the CSV file will not update your database but will add data to it.

To migrate all the data correctly, you'll need to take two steps:

- Transfer the sources (warehouses)
- Transfer the filling of the sources with products

Step 1: Transfer the sources

Please go to **System → Export**. Choose the entity type **Amasty Warehouses (Sources) Export** to export the sources.

Export

Export Settings

Entity Type Amasty Warehouses (Sources) Export ▼

Export File Format CSV ▼

Fields Enclosure

Entity Attributes

Search [Reset Filter](#) 4 records found

Field
source_code
sku
status
quantity

Continue

File name	Action
We couldn't find any records.	

- Click the button **Continue** and get the CSV file with the data.
- Go to **System → Import** and choose **Amasty Warehouses (Sources) Import**.

Import

Import Settings

Entity Type * Amasty Warehouses (Sources) Import

Import Behavior

Import Behavior * Add

Validation Strategy * Stop on Error

Allowed Errors Count * 10
Please specify number of errors to halt import process

Field separator * ,

Multiple value separator * ,

Empty attribute value constant * __EMPTY__VALUE__

Fields enclosure

File to Import

Select File to Import * amasty_ware..._155842.csv
File must be saved in UTF-8 encoding for proper import

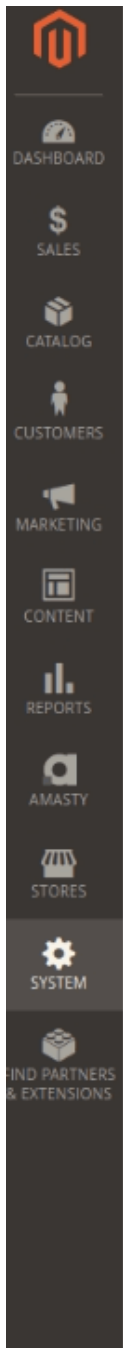
Images File Directory

- Add the downloaded file.
- Click **Check Data**
- Click **Import**

You may go to Stores → Sources and see the migrated sources, yet not linked to products.

Step 2: Transfer the filling of the sources with products

Please go to **System → Export**. Choose the entity type **Amasty Items per Warehouses (Sources) Export** to export the products and sources link data.



Export

Export Settings

Entity Type Amasty Items per Warehouses (Sources) Export

Export File Format CSV

Fields Enclosure

Entity Attributes

Search [Reset Filter](#) 4 records found

Field
source_code
sku
status
quantity


Continue

File name	Action
We couldn't find any records.	



- Click the button **Continue** and get the CSV file with the data.
- Add the downloaded file.
- Go to **System** → **Import**

 Make sure your file isn't more than 2M.

Import Settings

Entity Type *  [Download Sample File](#)

Import Behavior

Import Behavior *  

Validation Strategy * 

Allowed Errors Count *

Please specify number of errors to halt import process

Field separator *

Multiple value separator *

Empty attribute value constant *

Fields enclosure

File to Import

Select File to Import * amasty_ware..._155842.csv

File must be saved in UTF-8 encoding for proper import

- Click **Check Data**
- Click **Import**

If you go to the page of one of the products that were previously linked to the MWI warehouse, you'll see, that now it is linked to the MSI source, the name of which completely coincides with the name of the former one.

After the data migration is complete, please turn off your MWI to avoid the fatal error on the product grid. Also, please perform **php bin/magento index:reindex**.

Find out how to install the Multi Warehouse Inventory extension via [Composer](#).

From:

<https://amasty.com/docs/> - **Amasty Extensions FAQ**

Permanent link:

https://amasty.com/docs/doku.php?id=magento_2:multi_warehouse_inventory

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