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Welcome to Lightspeed Retail POS + Magento 2

Module Connector v1.2.X - Documentation



lightspeedRetail

+

Magento 2

[HELPCENTER / Knowledge base for Lightspeed](#)

Ticketing support channel: lightspeed@maurisource.zendesk.com



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Overview

The module connector allows a bi-synchronization between Lightspeed Retail POS and Magento eCommerce platform Community Edition or Enterprise Edition.

The module is built with the goal of using Lightspeed as the source content feeder (Master Catalog), and Magento as a distribution channel.

Out of the box, the module connector offers an **Omni-channel environment**. With all Management centralized in the Retail Point of Sales system. After syncing initialized, catalog datas are imported to Magento and completed orders are exported back to Lightspeed keeping the inventory up-to-date and stock latency to a minimum.

Smart HASH Logic was implemented to sync only changes detected from Lightspeed. I.E. A product description change occurs in Lightspeed, there's a hash code mismatch with the Magento version, hence that SKU is flagged to be part of the next sync.

Lightspeed API bucket size range from 30/90, our module conforms to the Bucket's range.

Definition

Lightspeed Retail

Product carried by the Lightspeed HQ company. It is a cloud-based POS system, with everything you need to manage your in-store inventory effectively and intuitively.

Magento 2 eCommerce

Amazing expandability and robustness for businesses looking for a solid platform to sell online. Magento eCommerce offers great capability to integrate with 3rd party services.

Lightspeed + Magento 2 connector

Simply a bridge connector developed to marry both platforms and make them work seamlessly hands in hands.



The connector offers robust and intelligent capabilities to handle different limitations and integrate with ease with different store environments.

This documentation will illustrate the Syncing Operations Logic environment and core features embedded into the module. If you have any specific questions or concerns, kindly drop us a line from the Support section at the bottom of this document.

Syncing Operations Logic

Environment

This module will not work with existing product's catalog in Magento.

Upon initial setup of the module, new attribute set "Lightspeed" will be created. Under which all Lightspeed products will sync to. It is not possible to alter this logic, since with the new attribute set comes new dependencies required for future syncing.



If you have an existing product catalog in Magento, it is possible to migrate your product's data to the new products belonging to "Lightspeed". This data migration is not covered by the module, you may wish to use the Export / Import feature built-in Magento in order to migrate your attributes and data to the new attribute set. Be aware that "synced fields" discussed below, are updated upon each sync.

Categories

It's not a requirement to use the categories created by the module. If you do, the same category structure from Lightspeed will be created in Magento. You may enable/disable them post sync. It is recommended to use a new root category dedicated for the Lightspeed categories.

You may use your own existing categories if needed, in Magento simply can map your Lightspeed products with any categories of your choice as you would normally do.

Images

Simple product images are imported from Lightspeed and create a gallery whereas applicable.

Configurable product's images are taken from their simple products children.

You can add images manually in Magento, they will not be overwritten.

Smart Hash

Smart hash implemented. To detect products changes on Lightspeed and sync them back in Magento.

Multi-store setup

The whole inventory from your Lightspeed account is used in Magento. (Not inventory per location)

You can specify the Lightspeed store location to automatically deduct the inventory from. You can also edit this information when processing the order in Lightspeed itself.

It is NOT possible to use separate inventory per store view in Magento. We investigated this feature, as Magento doesn't support multiple inventory and the self-hosted module complies 100% with Magento, it is a limitation out of our reach.

Module core features

- **Catalog syncing**
 - Simple Products
 - Name
 - SKU
 - Descriptions
 - Price
 - Tax Class
 - Images
 - Additional images support on Magento side
 - Multiple images from LS mapped as gallery
 - Inventory
 - Stock levels
 - Products changes (Hash used for version comparison)
 - Inventory status
 - Backorder support
 - Configurable Products (known as Matrix in LS)
 - Color/Size support
 - Association with related Simple Products
 - Configurable products SKU in Magento: prefix **CONF-LS-**
 - Categories
 - Subcategories
 - Sub-Subcategories
- **Orders syncing**
 - "Completed" orders status instantly pushed to LS
 - Order sync status in Grid



- RED: Synced (with direct link to attached order in Lightspeed)
- GRAY: Pending sync (clickable to manually Sync it if needed)
- YELLOW: Not syncable

- **Syncing methods**

- Manual syncing buttons (for testing purposes - watch for php timeouts under larger catalogs)
 - Product' sync button on Catalog > Products
 - Sync button in System > Config
- Import product' sync
- Initial import sync
- CRON job (recommended for production usage - recurrent server sync)
 - Retry "Pending sync" orders
 - Transmit orders
 - Sync catalog products with unmatched hashes

- **Manufacturers**

- LS manufacturers populated as attribute **lsmanufacturers** in Magento

- **Payment Methods**

- Maps to existing "Card Payment" in LS

- **Configuration**

- Map specific LS store to specific Magento store
 - Lightspeed store ID (if multiple shop location enabled in LS, default is **1**)
 - Magento website/store ID (Magento store view to map with)
- The register ID to work with
 - Lightspeed register ID (if multiple shop location is enabled in LS, default is 1.)
- Employee ID
 - Lightspeed employee ID (API key requester)
- Skips orders before
 - Date to sync orders from
- Shipping mapping
 - If unspecified
 - "cost" field in LS is used for shipping costs
 - Specified non-inventory item
 - Define the item ID to include as Sales Item

- **API features for Developers**

- Extensive logs stored in db, 30-days accessible from admin
 - Throw error with full details
- Module conforms to LS API Leaky Bucket implementation



Synced fields

'name' =>

'short_description' =>

'description' =>

'width' =>

'height' =>

'length' =>

'weight' =>

'price' =>

'categories' =>

'images' =>

'additional_attributes' =>

'last_updated' =>

'ismanufacturers' =>

Standard Magento installation

Step 1. Log in your account on Maurisource

<https://maurisource.com/store/customer/account/login/>

Retrieve your package from Maurisource.com/store under "My downloadable products"

Step 2. Extract package and Merge the "app/" folder into your Magento root folder.

Step 3. Full list of cli commands and subcommands from official [Magento DevDocs](#)

Issue basic command. (Warning! If you don't know what you're doing, please refer to a System Admin for specifics setup and error logs troubleshooting for instance.)

A) Login command line, with the Magento 2 sudo user.

B) Input the following command for install:

```
$ php bin/magento setup:upgrade
```

C) Compile, flush Magento Cache and Reindex

For detailed installation instructions visit the [HelpCenter Installation guide](#)

Authorization

Your License Key will be generated and provided to you 24 hours after processing your order.

Please follow the guideline illustrated on the the [Help Center](#) to connect the module to your Lightspeed Retail account.

Up-to-date instructions can be found here:

<https://maurisource.zendesk.com/hc/en-us/categories/202582267-LIGHTSPEED>

Lightspeed Configuration Settings

The screenshot illustrates Magento 1 interface. But it's the same fields in M2

SEE [HIGH RES image here](#).

LightSpeed Save Config

Settings

Enabled: No [GLOBAL] **Switvh module On/Off**

License Key: 0016a39a9d72d045aa1cebcc68 [GLOBAL] **Secure a OAuth connection with your Lightspeed Retail account. This step replaced the obsolete API KEY**

Step 1. Paste your License key above and Save Config.
Step 2. Authorize the application to Access your Lightspeed Retail account following this link.
[Maurisource Lightspeed API Registration](#)
Having troubles? Check [Help Center](#) for steps by steps

Employee Id: 1 [GLOBAL] **Employee ID is usually the Lightspeed admin who made the initial authorization**

Shop Id: 1 [GLOBAL] **Change only if you have multi-shop location and want to map the sync to a specific one**

Register Id: 1 [GLOBAL]

SKU suffix: [GLOBAL] **Leave empty. Only to be used to alter existing Magento SKUs in the way of the product syncing**

Root Category To Sync: Default Category [GLOBAL] **Define the Root Category to sync with**

Sync To Websites: All, Main Website, Wholesale [GLOBAL] **Define which website all products and orders will sync to**

Shipping Item Id: 9 [GLOBAL] **Leave blank to not attach with SalesLines**

Cloud LightSpeed domain to use: east32.merchantos.com [GLOBAL] **Found in URL after login Lightspeed**

Order Date: [STORE VIEW] **Define to ignore past orders**

Sync Now [GLOBAL] **Useful for small catalogs, otherwise it may hit a Php max execution timeout**

Reset [GLOBAL] **Terminate any ongoing sync**

important: If specified this will add a suffix to your existing SKUs, use only if existing catalog SKUs are preventing syncing

Date from which order will be sync to Lightspeed. Leave Blank for all orders

This will import Catalog data from Lightspeed to Magento

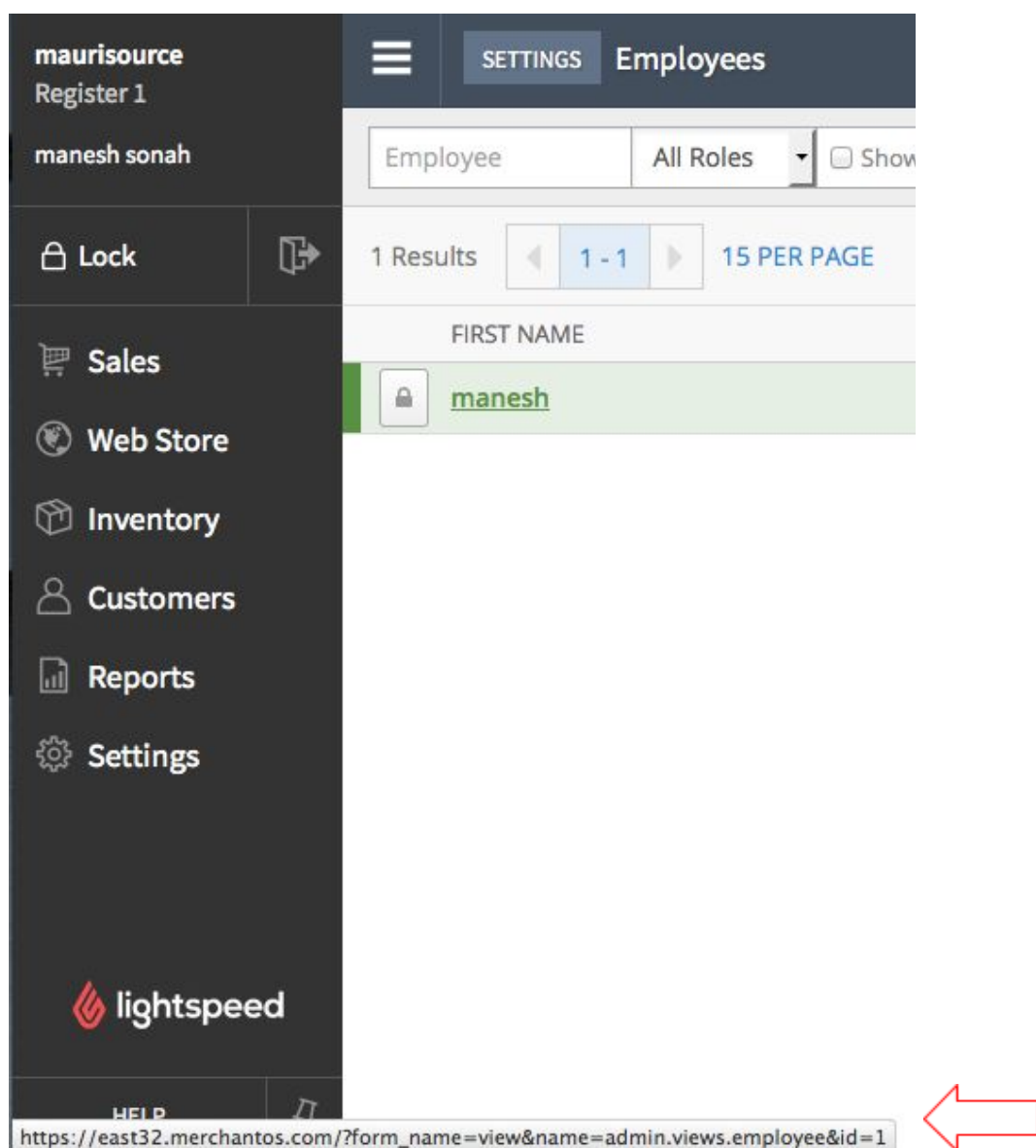
This will reset the lock file if update has crashed.

Employee ID. Find your Employee ID. Select the same admin Employee that authorized access to the Integration i.e. "Magento Store" (That way in reports you'll know exactly where the sales are coming from)

1. Go to Setting > Employee Setup

Hover your mouse over an Employee and you'll see a suffix at the end of the URL

form_name=view&name=admin.views.employee&id=1



The screenshot shows the Maurisource admin interface. The left sidebar contains navigation options: Register 1, manesh sonah, Lock, Sales, Web Store, Inventory, Customers, Reports, Settings, and lightspeed. The main content area is titled 'Employees' and shows a list of employees. The first employee is 'manesh', which is highlighted in green. The URL at the bottom of the browser is `https://east32.merchantos.com/?form_name=view&name=admin.views.employee&id=1`, with a red arrow pointing to the `&id=1` part.



Shop ID. If you have only 1 shop, use "1".

(Optional: for multiple-shop location setup in Lightspeed, If you want your inventory to match a specific store location, then you can change it here.)

1. Find the Shop ID under Settings > Shop as shown on screenshot below

The screenshot shows the Lightspeed admin interface. On the left is a dark sidebar with navigation options: Lock, Sales, Web Store, Inventory, Customers, Reports, and Settings. The main content area is titled 'Shops' and shows a table with 2 results. The first result is 'maurisource' with address '100'. Below the table is a link for 'New Shop Location'. At the bottom of the page, the browser address bar shows the URL: https://east32.merchantos.com/?form_name=view&name=admin.views.shop&id=2. A red arrow points to the 'id=2' part of the URL.

F - Register ID. By default it's 1. Optional: If you have multi-shop locations setup, then you have different Register ID. (This sets to which Register you want your Magento orders to sync with.)

Find your Register ID under the actual shop. (watch the recording below)

<http://recordit.co/VZFEcwRbaP>

G - Sync to website. To which Magento website you want your products and orders to sync with? It can be all of them, or a specific one.

H - Shipping Item ID. (Optional). You can create a non-inventory product in LS to append your shipping cost to it and have better understanding on your Reports. I.E. "CUSTOMER SHIPPING"

If you don't specify anything, Shipping will be mapped as "cost" by default in your Totals in LS.

If you do specify the Shipping Item ID, Shipping will still be mapped as "cost" by default in your Totals + the non-inventory Item ID will be included under your **Sale Lines** as below.



New Shop Location
Register B

manesh sonah

Lock

Sales

Web Store

Inventory

Customers

Reports

Settings

REPORTS
Transaction / Transaction ID: 767, \$7590.04

Save Changes
Re-Open
Print Quote

Sale Lines

3 Results 1 - 3 15 PER PAGE

ITEM	CLASS	EMPLOYEE	QTY.	PRICE
Testing product	Item	Manesh Sonah	1	\$6678.00
Magento Test Product	Item	Manesh Sonah	1	\$30.00
CUSTOMER SHIPPING	Item	Manesh Sonah	1	\$10.00

Inventory Lines

No lines were found.

I - Cloud Lightspeed domain to use. This is attributed to you once you've created a Lightspeed Retail account based on your location.

To find it: Once you logged in Lightspeed Retail, this is the domain you see in your web browser: I.E <https://us.merchantos.com/>

Only input this under settings: us.merchantos.com

J - Order date. If you want to set a timestamp for orders syncing in order to ignore orders before a certain date, this is where you do it.

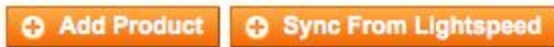
K - Sync now. Trigger an initial sync (up to 500 products) ideal to test if things are working. It's limited to 500 recent products to avoid possible timeouts. This is not a replacement to using Magento's default CRON.

The manual sync button can also be seen under Catalog > Manage products (Top-Right section) there will be a button named "Import from Lightspeed)

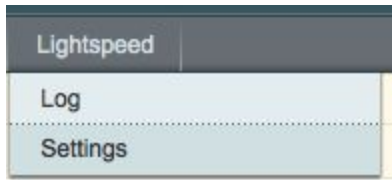


Extra admin UI features

1. The manual sync button can also be seen under Catalog > Manage products (Top-Right section) there will be a button named “Import from Lightspeed”)



2. New Lightspeed shortcuts to Settings and Logs in navigation panel.



3. Last executed sync notification

Lightspeed Sync running since 2016-06-30 12:30:16

4. Lightspeed > Log is for developers/admin to monitor syncing errors if any may arise.
5. Sales > Orders. There is a new Lightspeed column in grid. (easy view of properly synced orders and problematic ones.) See icons color meanings here: [Order sync status in Grid](#)

Order #	Purchased From (Store)	Purchased On	Bill to Name	Ship to Name	G.T. (Base)	G.T. (Purchased)	Status	Action	Lightspeed
10000017	Main Website Main Website Store Default Store View	Jun 2, 2016 2:53:14 PM	Manesh Test	Manesh Test	CAS911.00	CAS911.00	Complete	View	
10000016	Main Website Main Website Store Default Store View	Jun 1, 2016 3:30:34 PM	Manesh Test	Manesh Test	CAS865.70	CAS865.70	Complete	View	
10000015	Main Website Main Website Store Default Store View	May 16, 2016 11:46:28 AM	Manesh Test	Manesh Test	CAS157.97	CAS157.97	Complete	View	
10000014	Main Website Main Website Store Default Store View	May 16, 2016 11:41:49 AM	Manesh Test	Manesh Test	CAS394.93	CAS394.93	Canceled	View	
10000013	Main Website Main Website Store Default Store View	May 16, 2016 11:28:13 AM	Manesh Test	Manesh Test	CAS39.49	CAS39.49	Complete	View	
10000012	Main Website Main Website Store Default Store View	May 3, 2016 3:19:47 PM	test test	test test	CAS7,217.24	CAS7,217.24	Canceled	View	
10000011	Main Website Main Website Store Default Store View	May 3, 2016 1:42:22 PM	test test	test test	CAS7,587.64	CAS7,587.64	Complete	View	

6. Overview of actual Simple Product attribute mapping (Color/Size and Manufacturer). From the Lightspeed tab in any Simple Product with Attrib. Set Name “Lightspeed”.

Choose Store View:
Default Values

Product Information

- General
- Prices
- Meta Information
- Images
- Recurring Profile
- Design
- Gift Options
- Lightspeed**
- Inventory
- Websites

Vintage Popover Blue Chambray XXL (Lightspeed)

Lightspeed

Color:

Size:

Manufacturer:



Manufacturers from Lightspeed

Pulled from Lightspeed to Magento they can be found under the attribute "Ismanufacturers"

They are automatically pulled and viewable from **Catalog > Attributes > Manage Attributes > "Ismanufacturers" > Manage options / labels**

Edit Product Attribute "Manufacturer"

If you do not specify an option value for a specific store view then the default (Admin) value will be used.

Manage Titles (Size, Color, etc.)

Admin	Default Store View
Manufacturer	<input type="text"/>

Manage Options (values of your attribute)

Admin	Default Store View	Position	Is Default	Add Option

Lightspeed Manufacturer List

Lightspeed Id	Manufacturer
1	Jane Iredale
2	Dr. Hauschka
3	Brittanie's Thyme
4	Good Clean Love
5	Lurk
6	Wakaya
7	Beard Balm
8	Grateful Body
9	Pura Botanica
10	Intelligent Nutrient
11	Humble Brush
12	Organic Essence

You can edit the attribute Frontend settings in the Properties tab to allow showing on frontend



Matrix / Configurable products

Called Matrix in Lightspeed and Configurable Products in Magento.

The module will sync Color/Size or combination of both as Configurable type in Magento.

No SKUs are existent in Lightspeed for Matrix elements, only IDs. So in Lightspeed we attached the SKU prefix **CONF-LS-** following the Lightspeed ID.

I.E **CONF-LS-5** (relates to the ID element 5 in Lightspeed)

Inventory works as by default in Magento's Configurable Products and is controlled by Associate Products which are the Simple Products associated to it. (*Associated Products* can be found in any Configurable Product tab see screenshot)

As per screenshot below you see 2 simple products mapped to the Matrix / Configurable products synced from Lightspeed Retail.

Chalkstripe GL2 Pant (Lightspeed)

[Back](#)
[Reset](#)
[Delete](#)
[Duplicate](#)
[Save](#)
[Save and Continue Edit](#)

- Prices
- Meta Information
- Images
- Design
- Gift Options
- Lightspeed
- Inventory
- Websites
- Categories
- Related Products
- Up-sells
- Cross-sells
- Product Reviews
- Product Tags
- Customers Tagged Product
- Custom Options
- Associated Products**

Quick simple product creation

Name * [STORE VIEW]
Autogenerate

SKU * [GLOBAL]
Autogenerate

Weight * [GLOBAL]

Status * [WEBSITE]

Visibility * [STORE VIEW]

Color *

Size *

Qty *

Stock Availability

[Quick Create](#)

Super product attributes configuration

Price values for options should be specified in system base currency.
Attribute names can be specified per store.

Color Attribute Name: Use default (Color)
Option: Grey Price: Fixed

Size Attribute Name: Use default (Size)
Option: 1 Price: Fixed
Option: 3 Price: Fixed

Page 1 of 1 pages | View 20 per page | Total 2 records found
[Reset Filter](#) [Search](#)

<input checked="" type="checkbox"/>	ID	Name	Attrib. Set Name	SKU	Price	Inventory	Color	Size	Action
<input checked="" type="checkbox"/>					From: <input type="text"/> To: <input type="text"/>				
<input checked="" type="checkbox"/>	2337	Chalkstripe GL2 Pant Grey 1	Lightspeed	21000002287	CA\$1,375.00	Out of Stock	Grey	1	Edit
<input checked="" type="checkbox"/>	2622	Chalkstripe GL2 Pant Grey 3	Lightspeed	21000002572	CA\$1,375.00	Out of Stock	Grey	3	Edit



Support & Terms

Maurisource provides free updates to this module branch 2.x.x, based on recommendations and bugs reported by our trusted customers. Newly release versions will be deployed frequently and can be found under “my account” . Following same installation guidelines. (Don't worry, your settings won't be overridden when upgrading.)

We provide 1 free installation support per license domain. If you need more installations on other domains, you will need to place new orders respectively.

Support channels related to the integraton:

lightspeed@maurisource.zendesk.com

<https://maurisource.com/store/support/>

Helpcenter related to the integration:

<https://maurisource.zendesk.com/hc/en-us/categories/202582267-LIGHTSPEED>

IMPORTANT: Usage of this module is limited to 1 license per domain as agreed by our [Terms of use](#). If you need multiple license to use with other domains please place your order again and have proper support for your products. **Breaching our softwares will result in immediate account termination and in some cases appropriate legal actions.**

Thank you, looking forward for your business.

<https://maurisource.com>