

Multi-Tenant Store Management System for nopCommerce

Plugin Documentation

Powered by

Apollo Integration Framework

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Multi-Tenant Store Manager Plugin Documentation

Multi-Tenant Store Manager

This plugin introduces new features and operations that overlay on the current nopCommerce Store functionality thus enabling a Multi-Tenant Store Management option for nopCommerce.

Specifically, it allows you to define customers, products, categories, news, topics, polls, vendors, warehouses and other content elements on a store basis.

There is also number of additional administrator functions including:

- Store Extended product configuration
- Store Supervisor Selector control
- An expended set of order statuses to allow for better control of order workflows
- Administrators can also use a function to combine and merge existing customer accounts and orders
- A function to create back orders

Administrator functions

An administrator has access to manage all of common setting, edit or delete product, customers, orders etc.

Using this plugin allows the account administrator of each store to

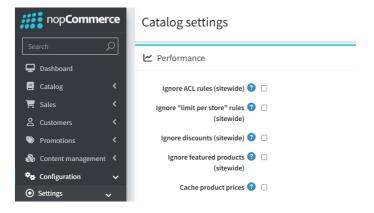
- Manage their own Categories and Manufacturers
- Manage their own Products
- Manage their own Customers and Orders
- Manage their own Customer Registrations, News and Messages
- Manage their own Store Campaigns
- Manage their own Store Topics
- Manage their own Store Polls
- Manage their own Store Languages
- Manage their own Store Currencies
- Manage their own Store Countries
- Manage their own Store Checkout Attributes
- Manage their own Store Discounts
- Manage their own Store News
- Manage their own Store Blogs
- Manage their own Warehouses
- Manage their own Vendors

Enable multiple stores

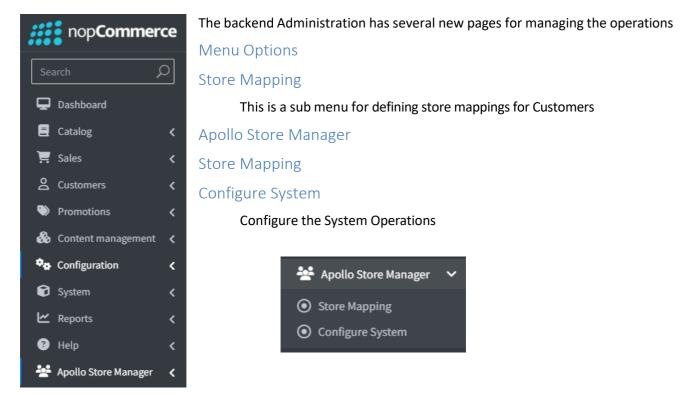
In order to use this functionality, you have to disable the following ignore setting:

Catalog settings > Uncheck Ignore "limit per store" rules.

See https://docs.nopcommerce.com/en/getting-started/advanced-configuration/multi-store.html

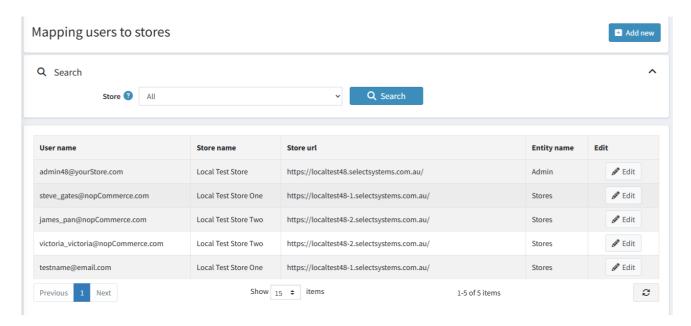


Administration Menu



Store Mapping

This view shows a list of customers that are mapped to specific stores. In this case there are three stores with one customer defined as an Admin for the master store "Local Test Store"



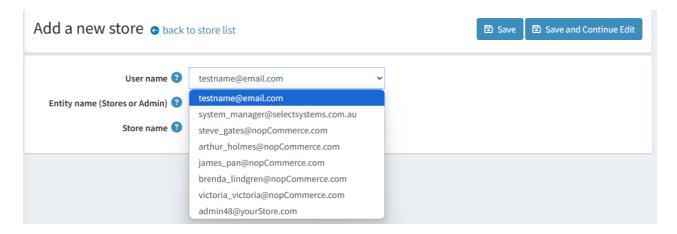
New Customer Registrations

When new customers register or are created, they are automatically mapped to the store in which they register. These mappings can be managed in this view.

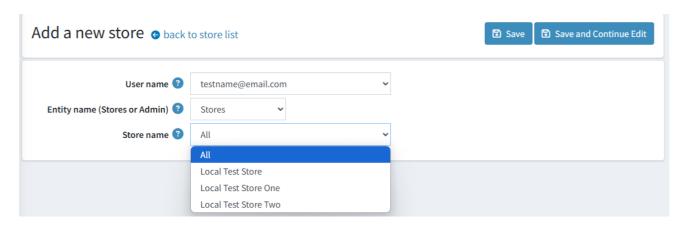
Create a Mapping

You can also use this function to map existing customers to stores.

You can create a new mapping by clicking on the Add Button



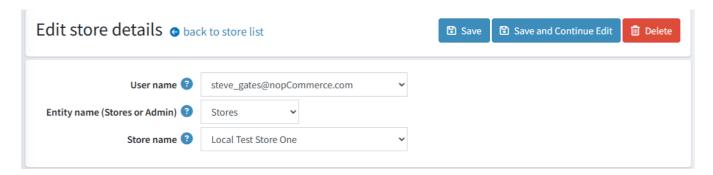
- Select the Customer for the Mapping
- Select the Entity Mapping type
- Select the Store



Then click Save

Edit a Mapping

You can edit a mapping by clicking on the Edit Button



Access Control

Before you can access the menu options:

- you need to setup access control to manage access to the Apollo management functions.
 - o To Operate the Plugin, you need Admin area. Store Operator
 - o To Manage the Plugin, you need Admin area. Store Manager
 - o To carryout **Supervisory** functions, you need **Admin area. Store Supervisor**
 - o To Configure the Plugin, you need Admin area. Manage Plugins

Go to Configuration > Access Control List

		Category of permissions					
•		Security					
•		Configuration					
•		Customers					
•		Promotions					
•		System					
•		Content Management					
•		Catalog					
•	Orders						
•		Reports					
•		Apollo Store Manager					
	Permission name Admin area. Store Manager Admin area. Store Operator Admin area. Store Supervisor		Customer roles	Edit			
			Administrators, Manager				
			Administrators, Manager	∂ Edit			
			Administrators				

Access to the various menu operations and functions are controlled by which ACL Access is assigned.

These ACLs are automatically defined for the **Administrator** Role as part of the installation.

When setting up new roles you will need to manually assign this ACL to the role.

Hierarchy of Controls

A Customer Mapped to a store with **Stores** Access, who also has **Access admin area ACL** can view items in the store admin but cannot edit. Access to elements is also subject to the nopCommerce ACL via customer roles.

If a customer mapped to a Store with **Admin** Access can edit elements that belong to that store. A customer mapped to the **Master Store** (Refer to configuration) can also edit all elements in any store.

For global elements that are not mapped to a store – they will be displayed in any store.

Normally stores **Admin** cannot edit an element unless it is mapped to their Admin store, but if they have **Admin area. Store Supervisor ACL** they can edit the global items.

Admin area. Store Manager ACL allows a customer to access the new functions

Store Mapping, Merge Customer

Admin area. Store Operate ACL allows a customer to access the new functions

Order Status Change – Next and Previous, Backorder Products on Orders.

Standard Customer Configuration

Master Store Manager

A customer who is registered in the Master Store (See config) who has Administrator Roles

https://localtest48.selectsystems.com.au/Admin

Email: admin48@yourStore.com

Password: admin48

Permission Name: Admin area. Store Supervisor

Master Store Manager can administer all stores

Store Managers

A customer who is registered in the specific store who has Administrator Role

https://localtest48-1.selectsystems.com.au/Admin

Email: store1manager@yourStore.com

Password: Store1Manager

ACL Permission: Admin area. Store Manager

https://localtest48-2.selectsystems.com.au/Admin

Email: store2manager@yourStore.com

Password: Store2Manager

ACL Permission: Admin area. Store Manager

Store Managers can manage their own store

Store Admin Officers

https://localtest48-1.selectsystems.com.au/Admin

Email: store1admin@yourStore.com

Password: Store1Manager

ACL Permission: Admin area. Store Operator

https://localtest48-2.selectsystems.com.au/Admin

Email: store2admin@yourStore.com

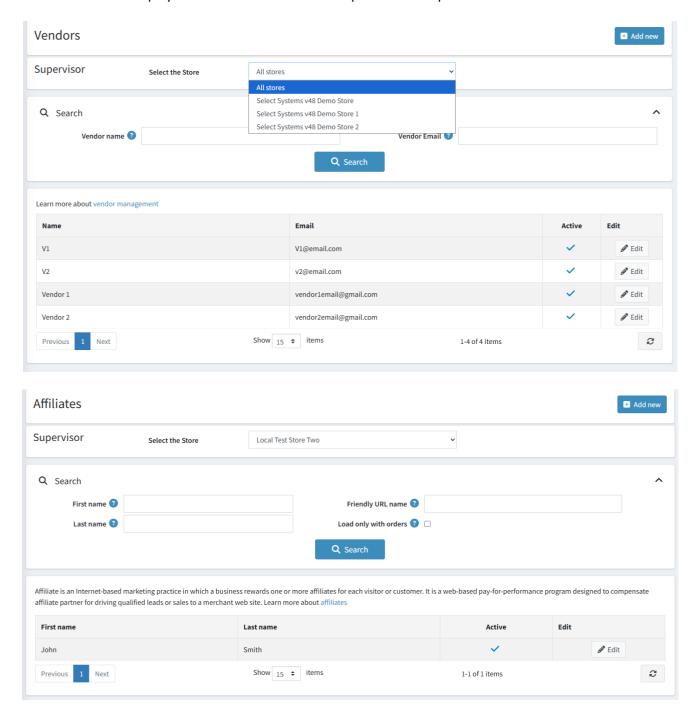
Password: Store2Manager

ACL Permission: Admin area. Store Operator

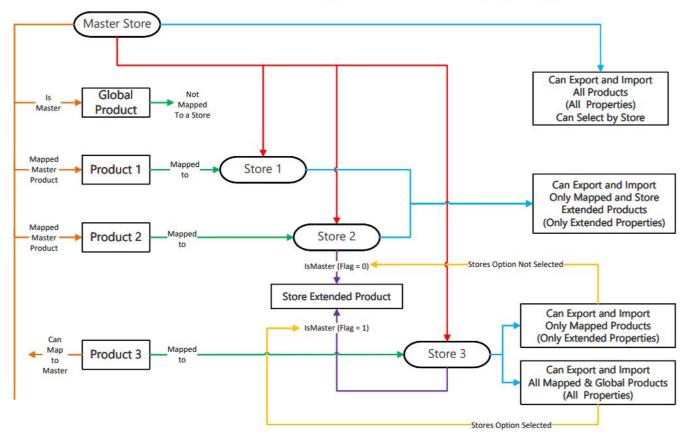
Store Admin Officers can operate their own store

Supervisor Store Selector

Elements that were not previously mapped to Stores i.e. Vendors, Activity Log, Discounts, Affiliates, etc. now have a Store Selector which is displayed when the Administration operator has Supervisor access



Store Product Types and Mapping



There are four types of products configurations:

- Global Products
 - These types of products can be viewed from any store
 - Products are setup and managed from the Master Store
- Global Products mapped to a Store
 - These types of products are setup and managed from the Master Store
 - Products are only accessible in the Store to which they are mapped
 - Full product configuration can only be done from the Master Store
- Store Extended Products
 - o These types pf products are Global Products which are mapped to a Store
 - They also have a Store Extended Configuration
 - This means they can have prices and other configuration elements defined on a Store basis
 - Full product configuration can only be done from the Master Store
 - Stores can only manage, export and import Extended product properties
- Store Mapped Master Products
 - These types of products are setup and managed from the Mapped Store
 - Defined as a Master product for the Store they are mapped
 - Full product configuration can be managed, exported and imported

New Administration Functions

Order Status

Orders are created when a customer makes a purchase from your website or other sales channel.

Sales Order Workflow

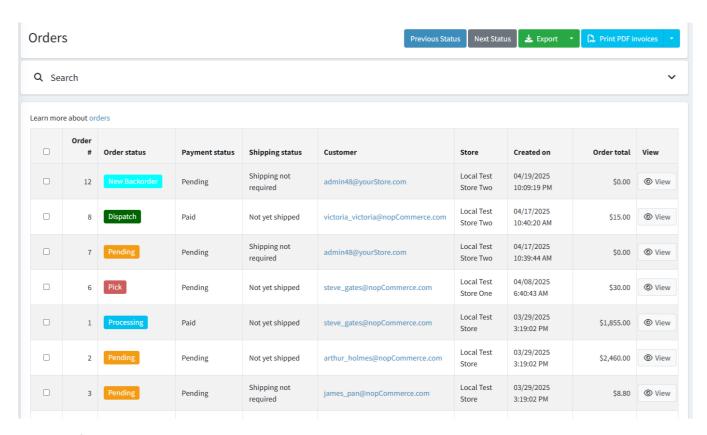
Sales orders are generally processed through several stages in nopCommerce, that correspond to actions in your order fulfilment process. The basic stages are:

- Pending: Order arrives.
- **Pick**: Order lines are collected in warehouse.
- Pack: Order lines are packed, consignment label created ready for shipping.
- Dispatched: Package is shipped to customer.

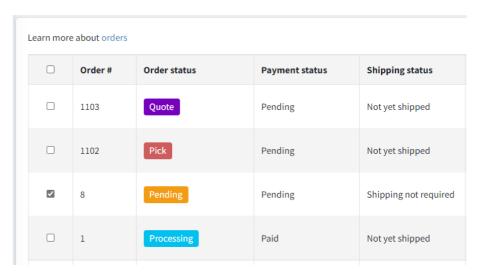
Depending on the circumstances, sales orders may need to go through more stages detailed below. These steps are explained further in this manual.

Orders

The new Orders View operates the same as the current view except that the orders displayed can have a range of new Statuses.



There a set of new order status



There are several new control Buttons at the top of the View



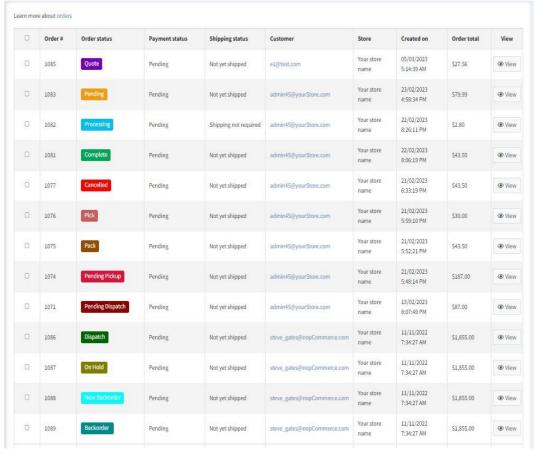
Previous Status allows you to move an order to the Previous Workflow Status

Next Status allows you to move an order to the Next Workflow Status

Depending on the current status the status will be updated to reflect the current state in the workflow Select the order(s) to push forward or back and click the required Button

Note: You need to apply Operator permission to customer role use this function

Each order status is highlighted using a different color



Order Status

A set of additional Orders Statuses have been created with the operating description as follows:

Quote	 A new order quote has been created for costing purposes Once a quote has been created the quote can be either saved as a New Order with same Order Number or it can be used to make a New Order with a new Quote Number meaning that the original quote will stay on file 			
New	 A new order waiting to be processed into SAP After an order has been processed and then Paid by the customer it may will return to the New status. In this case it should be pushed forward to the Pick status of other appropriate status. 			
Pick	The order has been processed and is scheduled to be picked from the store either on or before the Required Date			
New Backorder	A new order has been created but stock is not currently available and the order is held in backorder status until it has been confirmed that stock can be sourced.			
Backorder Approved	 The order has been processed but stock is not currently available, and the order is not scheduled to be picked until stock becomes available later. This status is also used to denote invoices that have been created to take par payments for orders. 			
Pack	 The order has been processed and picked and is ready to be packed ready for pickup or courier dispatch. Note: putting an order to Pack will automatically invoice the order if this has not already been done. In this case orders which have a future requirement date should remain in Pick status until the requirement date is reached 			
Pending Pickup	 The order has been processed, picked and packed and is ready for pickup up by the customer An order must be first approved, and an invoice created before moving an order to this status. 			
Pending Dispatch	 The order has been processed, picked and packed and is ready for courier dispatch. An order must be first approved, and an invoice created before moving an order to this status. 			
On Hold	 The order has some issue or problem and requires modification, cancellation or a credit AOP Credit Adjustment to be performed New orders will also go into hold status where the customer does not have remaining credit on their account. 			
Dispatch	An order has been completed and either picked up by the customer or couriered to the customer. No further action is required after an order is dispatched.			
Cancel	An order has been cancelled meaning that it no longer needs to be fulfilled. Cancelling an order with return any allocated stock back to the warehouse stock			

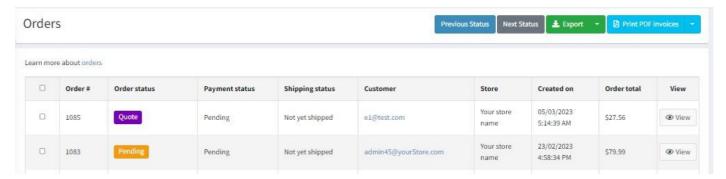
Managing Order Status

All website orders will be in one of the orders statuses at any point in time. The order status allows you to understand where an order sits in the Workflow. All new orders enter on the website will start with a Pending

Once the order has been initially processed then it will move through the workflow to a new order status.

Orders have a number of workflow paths

Selecting the order and clicking the **Previous** or **Next Status** will move the order back and forward in the workflow

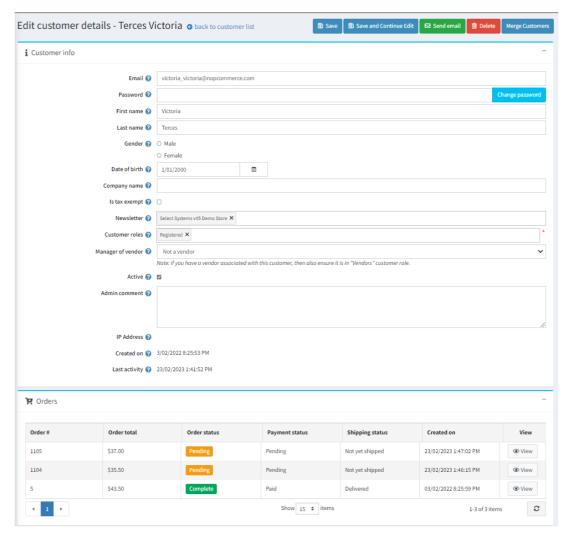


In this example Order 1083 is selected and the Next Status is Clicked – The order moves to Pick Status



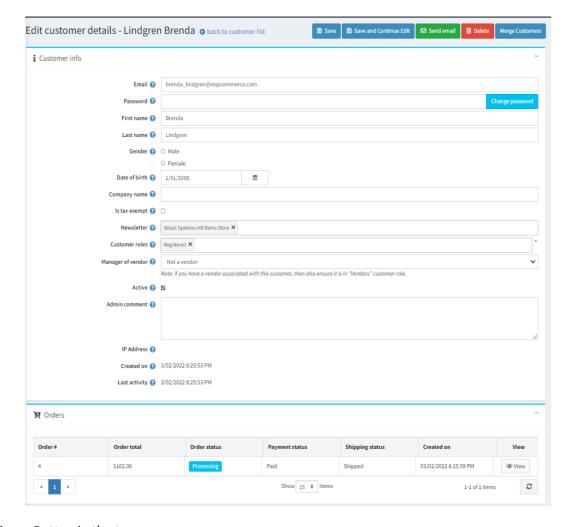
Merge Customers

The plugin has a new function that allows you to merge two or more existing customers into the one account.



If we wish to merge the orders in this customer account with another customer account

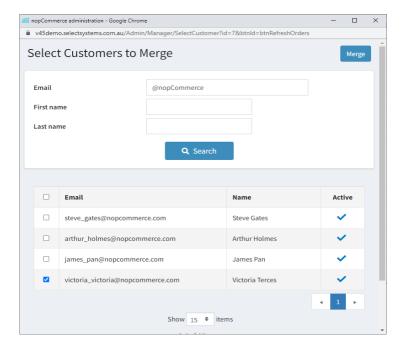
Edit the account you wish to be the main account that remains after the merge



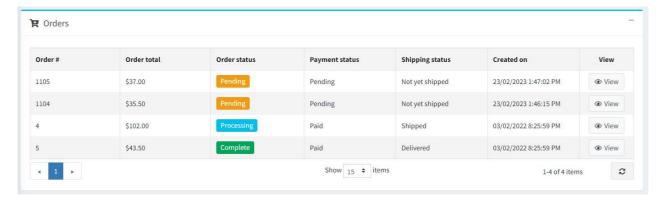
Click the Merge Button in the top menu

Then search and select the customers to be merged into this main account

Then click the Merge Button



After the merge the orders will be now linked to the main account



In configuration settings there is also an option to automatically delete the Merged Customers If

you select this option the merged customer will be deleted after the Merge is completed

Backorder Function

Backorders

When an item cannot be provided immediately, this new function allows individual order items to backordered.

Two of the most common reasons to create a backorder are when an item has been sold that is out of stock or the customer has requested a delay in delivery. For example, if your warehouse has 2 out of 3 items ordered and your customer is willing to wait for the third item, you have the option of splitting the order into the goods that can be shipped and the goods that cannot.

The order line for the out-of-stock item is sent to backorder and a new order with the **Backorder** status is created.

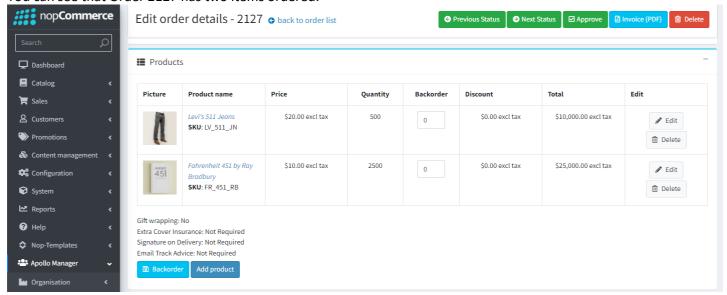
This process enables you to manage backorder items easily and progress the order through the system when the item is available. Goods that can be dispatched are shipped and the remaining item can be shipped later, which is preferable to cancelling the order altogether.

All other details on the new order created remain the same and are copied over from the first order. Except Payment and shipping status which are reset to pending. The new order is also craeted with an order status on **New Backorder**

Note: an order that has already been Paid cannot be split to back oder

Edit an order

You can see that Order 2127 has two items ordered.



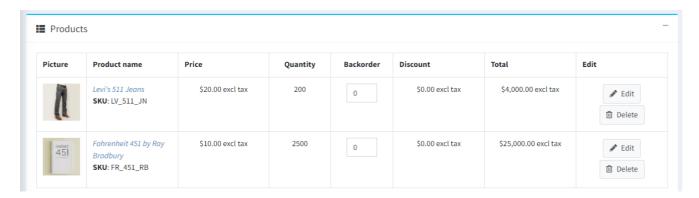
In the case of **Levi's 511 Jeans** currently only 200 are available now, so we can put the remaining 300 on backorder to be supplied at a later date.

Enter 300 in the Backorder field

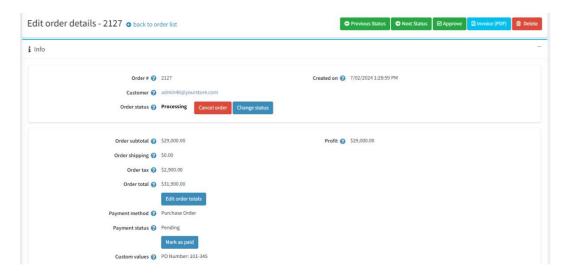


Then click the Backorder button located at the bottom on the section

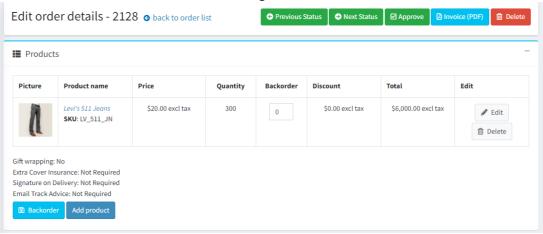
The quantitiy to be supplied in the order is adjuseted to 200. The total cost for this line item is ajusted.



The total order value is also recalculated based on the quanaities to be supplied in this order.

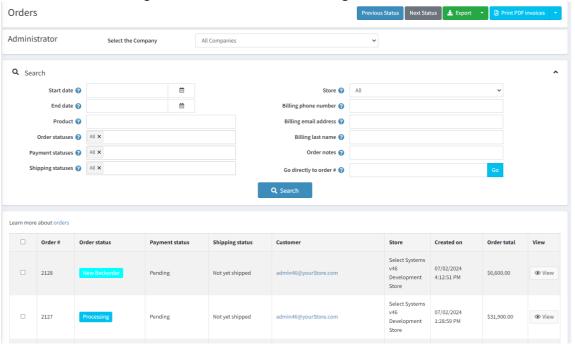


A new order is now created. Order 2128 has the remaining 300 items which are on backorder



The status of this order is **New Backorder**.

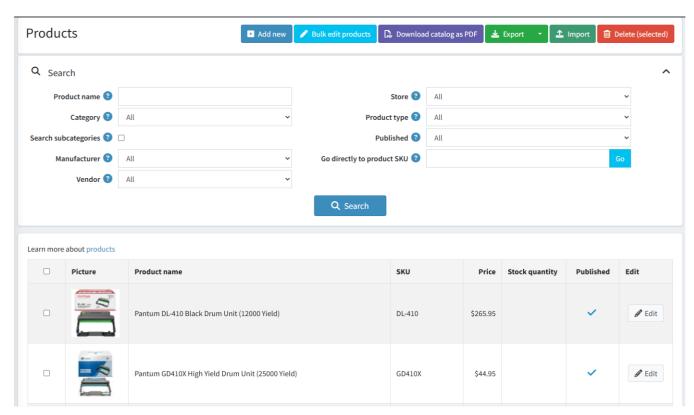
The original order remains in the original status in this case **Processing**



Product Views

Global Products

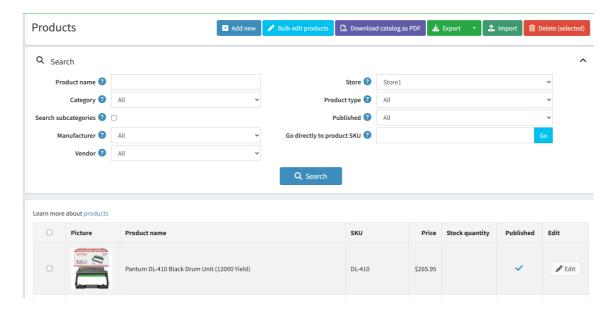
As previously detailed Global products are products that are created and managed in the Master Store



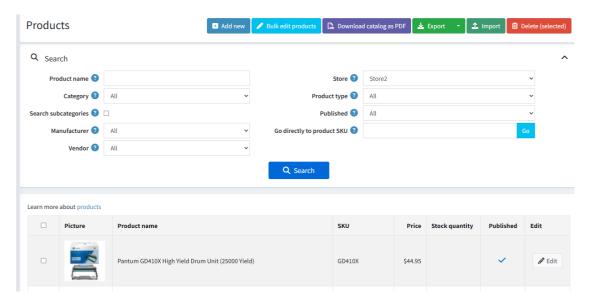
Note: the fields for Product Name and Store are persistent across searches

Global Products can also be mapped to a particular store

This product is mapped to Store 1



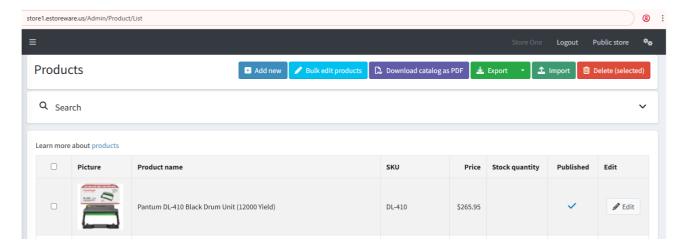
but is not mapped to store 2 and hence not displayed when Store 2 is selected in the search



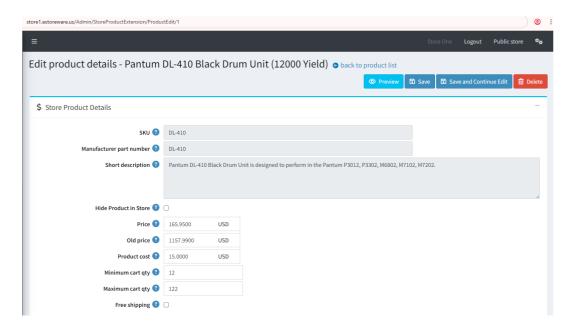
As such this will only be displayed in the website front end in Store 1 and not Store 1

Store Extended Products

Store Extended products are global products which have a special configuration for a particular store If you view the product that is available in that store i.e. Store 1



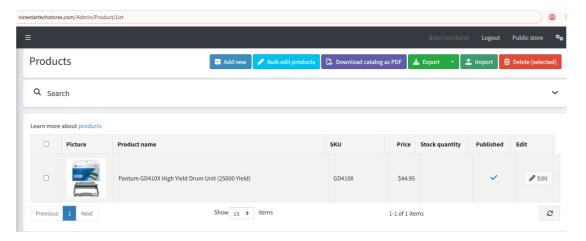
and then Edit the product you can see the Store Product Configuration



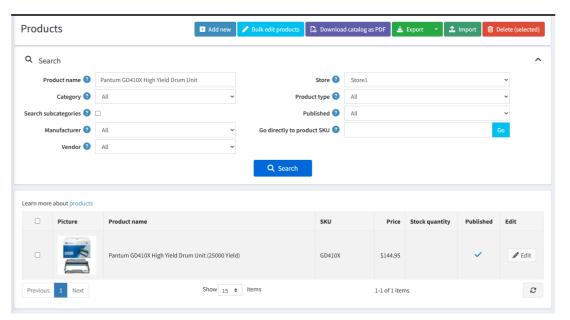
Note this product is only mapped to store 1 and is not available in Store 2

Products Mapped to Multiple Stores (Viewed from Master Store)

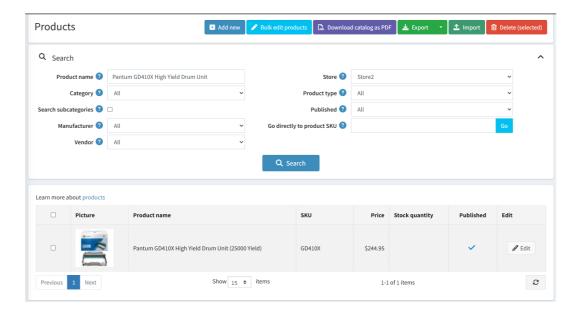
You can view products that are Store Products with the configuration for that Store



Search for Product in Store 1

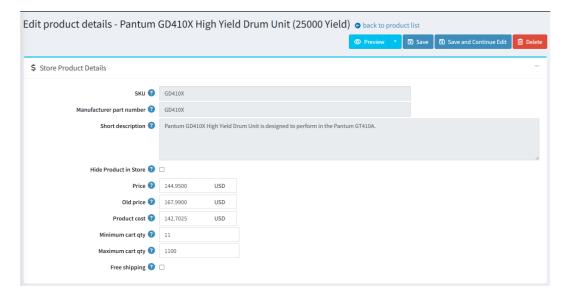


Search for Product in Store 2

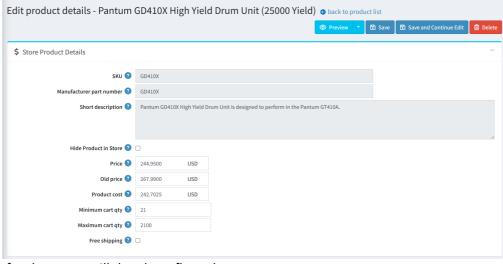


Note: the details displayed are for the respective store

View for Product in Store 1



View for Product in Store 2

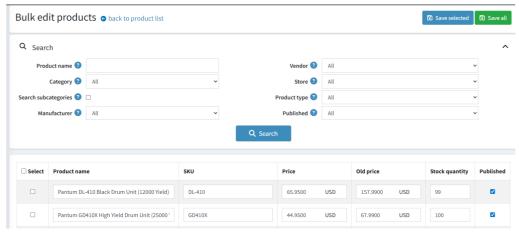


Editing the Values for that store will then be reflected

Bulk Edit Products

Bulk Edit Global Products

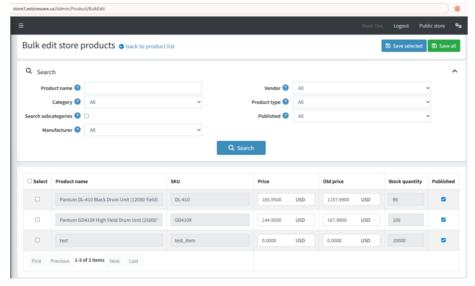
You can Bulk Edit products in the Master Store



The products that are mapped to a store will be displayed when selected the store

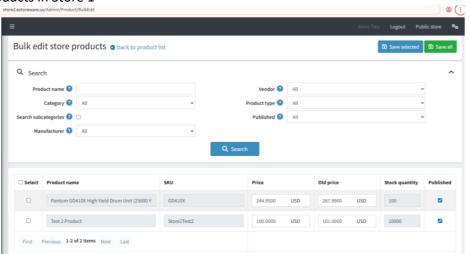
Bulk Edit Store Extended Products

You can Bulk Edit products in Store 1



Note: You cannot Bulk Edit unless a product is mapped to a store

You can Bulk Edit products in Store 1



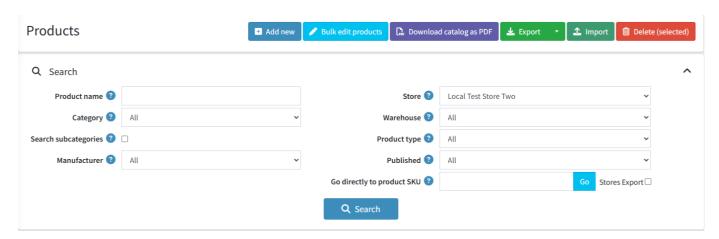
Export Products from Store (for later import)

There is two types of exports and import file formats created

- Global Product Export and Import File Format
- Store Extended Product Export and Import File Format

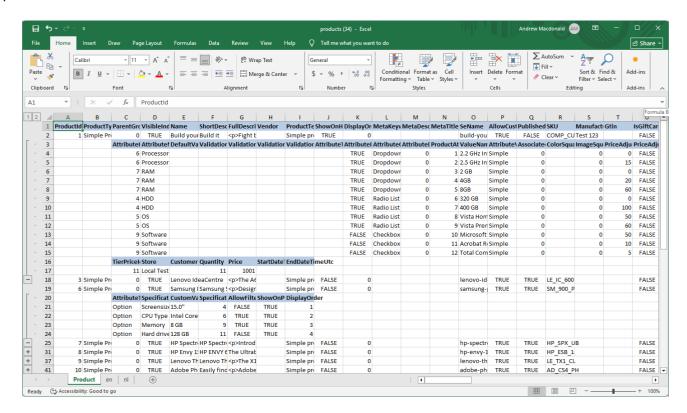
Stores Export Checkbox

The **Stores Export** checkbox allows you to select which format to export



Export Global Products

When logged into the Global Store then selecting All Stores will export All Products which works as per standard nopCommerce



When selecting a Store via the Store dropdown only products mapped to that Store will be exported – This has the same result as if logged into that Store.

Then selecting the **Stores Export** checkbox will export only the Store Extended Products and their configuration

Unselecting the **Stores Export** checkbox with export Store Mapped Mater products meaning the full product configuration can be both exported and imported

Export Store Extended Products

Export Products with Store Configuration in Store 1

1	Α	В	С	D	E	F	G	Н
1	Published	ISKU	IsFreeShipping	OrderMinimumQuantity	OrderMaximumQuantity	Price	OldPrice	ProductCost
2	TRUE	DL-410	FALSE	12	122	165.95	1157.99	15
3	TRUE	GD410X	FALSE	11	1100	144.95	167.99	142.7025

Export Products with Store Configuration in Store 2



Export Store Mapped Master Products

When a store has both Mapped and Global products you can use the Stores Checkbox to select which to export.

Selecting the **Stores Export** checkbox will export only the Store Extended Products and their configuration

Unselecting the **Stores Export** checkbox with export Store Mapped Mater products meaning the full product configuration can be both exported and imported

nopCommerce Administration

The existing admin functions are used install and setup a plugin

See https://docs.nopcommerce.com/en/getting-started/advanced-configuration/plugins-in-nopcommerce.html

Installing the Plugin

The install package supplied can be uploaded and installed using the "Upload plugin or theme" button on the Configuration > plugins page.

Refer to Then the installation of the plugin follows the standard nopCommerce procedure. See https://docs.nopcommerce.com/user-guide/configuring/system/plugins.html

Alternatively, you can manually install the plugin:

- 1. Copy the Plugin to the correct directory
- 2. Restart the Application Click the Icon in the top

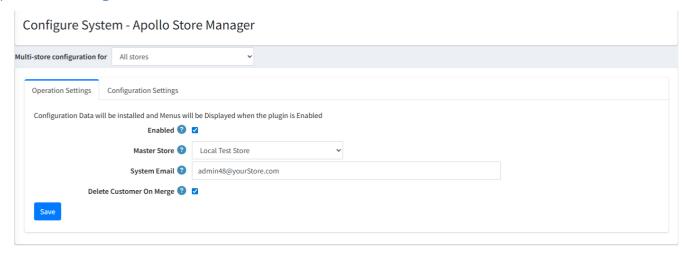
Once installed the you can configure the plugin.

Configure Settings

The settings for the plugin can be set using the configure page.

There are two tabs for plugin settings Operation Settings and Configuration Settings

Operation Settings



Enabled

Click this checkbox to enable the plugin functionality. Not3e the menu items are not displayed unless the plugin is enabled

Master Store

The drop down allows you to select the Master Store for configuration arrangement. The master store is used to automatically create default mappings for elements that do not normally have store mappings associated.



System Email

This is the system email account use to define the default system user which is used for various functions (not used in this plugin as yet)

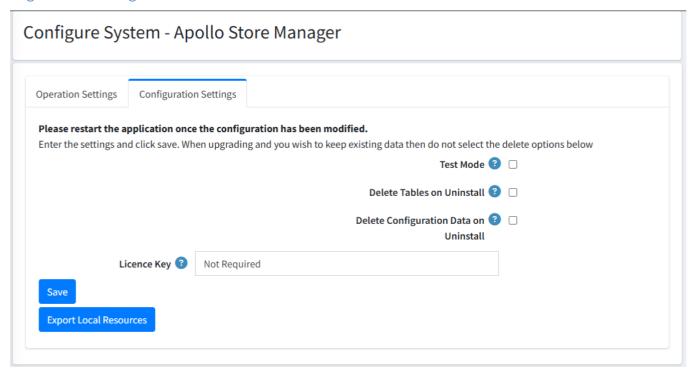
Delete Customer On Merge

Select this option to automatically delete customer accounts after they have been merged

For example, Discounts. When an administrator creates a new Discount, the discount is automatically mapped to the Master Store. To reassign the Discount to another store you need to login to that store admin and edit the Discount and re-save.

After entering the settings click Save.

Configuration Settings



Test Mode

Selecting this option allows you to test the plugin and log process information in the system log. This option is used to test the plugin within nopCommerce.

De-select the nopCommerce Test Mode to use the plugin live mode.

Delete Tables on Uninstall

This setting is used if the plugin needs to be uninstalled. When un-installing the plugin, you can decide if you want the tables and all existing demonstration product data to be deleted or you want to keep the tables and existing data

To delete the tables and the configuration click the Checkbox

Warning: Only select the Delete Tables option when you no longer plan to use the plugin or you want to clear all existing data, remove tables and start again

Note: This function is not currently used for this plugin as no new tables are created

Delete Configuration on Uninstall

This setting is used if the plugin needs to be uninstalled and you will not be reinstalling and want to delete the system configuration

- When un-installing the plugin, you can decide if you want to delete or keep the existing configuration

Purchased Licence Keys

When you first install the plugin Demonstration the Licence keys will be automatically generated. The plugin can be operated in demo mode for 14 days. The purchase licence key will be provided via email normally within 1 day after purchase. The purchase licence key can then be entered as follows:

Licence Key

This is the plugin licence public key provided. When you first install the plugin a Demonstration key will be saved. Change this value to the Licence key suppled in the email when received.

Demo System

To view the plugin operation or refer to the sample data configurations see the respective demo websites

http://v48demo.selectsystems.com.au/

Save

Save the current changes to the configuration

Export Local Resources

Click this buton will export all language resources created by the plugin. These can then be edited in bulk and reimported to a selected Language