

# Users Manual



## Revindex Storefront 15

This manual and features described are based on the latest software release. Certain features may not be available in older versions of the software. Please download (<http://www.revindex.com/My-Account/My-Downloads>) the Users Manual for older releases.

**Last update: 2019-10-18**

## Overview

Revindex Storefront is one of the most flexible shopping cart software for the DNN platform. It's powerful enough for large enterprises supporting thousands of products and millions of orders, yet simple to manage for small businesses.

Start selling in just a few steps! Revindex Storefront complies with industry credit card PCI rules using strong encryption, secure default settings, SSL support and data validation to protect your customer information.

We support all major payment gateways. If you don't find a suitable payment gateway, please contact us and we'll try to add it.

# Installation

Every Revindex software is designed to be easy to install and backward compatible where possible. Before doing any kind of installation whether upgrading or installing for the first time, always make sure to:

1. Read the Release notes paying attention to any new requirements or breaking changes.
2. Perform a full backup of your files and database.
3. Start the installation and pay attention to any errors. You should investigate and restore from your backup if you encounter any error.
4. Test and verify.

# Requirements

- DNN 8+ (Older version 5.0+, 6.1+, 7.2+ is also available)

Revindex Storefront also supports large Web farm installation (running across multiple servers) allowing you to scale to millions of customers. Please see Web farm (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/web-farm/rvdwkpvm/section>) for more information.

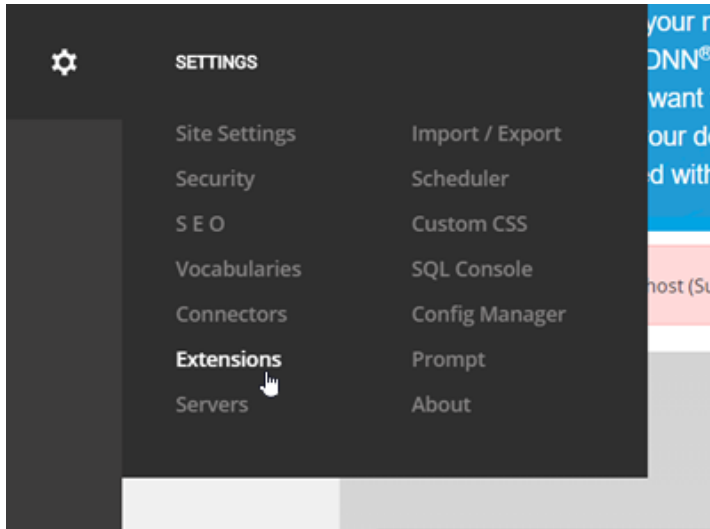
Your hosting provider determines what your Web site can do by enforcing different ASP.NET trust levels (Low, Medium, High, Full). For example, the default Medium Trust with a restricted WebPermission will not allow your Web site to communicate with external services such as FedEx. Similarly, a restricted ReflectionPermission will limit your ability to clone products, handle payment notification, etc.. Fortunately, most shared hosting providers will allow a modified Medium Trust or higher (with unrestricted ReflectionPermission, WebPermission) and is sufficient for Revindex Storefront to operate almost fully. We recommend that you ask your hosting provider the trust level and perform your own testing to determine what functionality is allowed. You can also look at your **Host > Host settings** page for the **Permissions** value to see if ReflectionPermission and WebPermission are allowed.



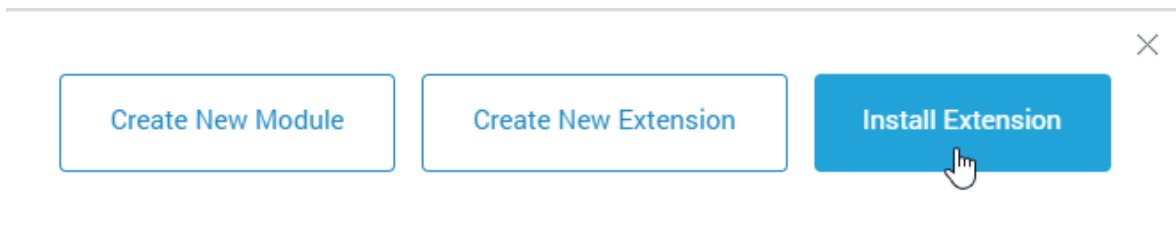
# How to install

Make sure to perform a complete backup of your system before starting the installation. Follow the steps outlined below to install the software.

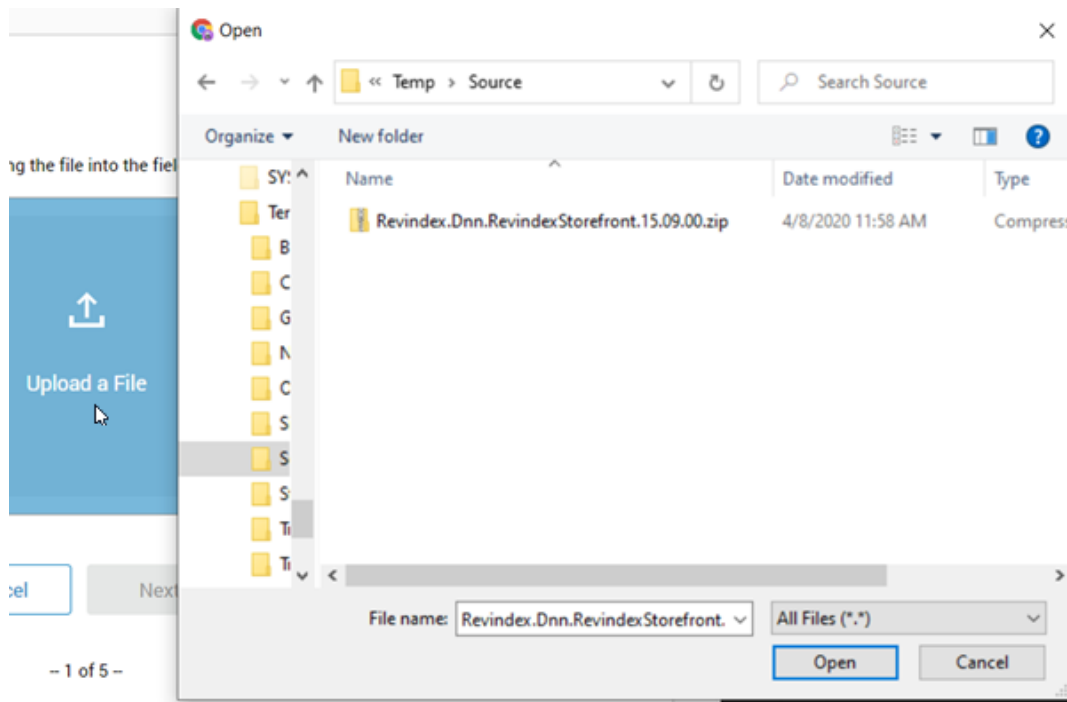
1. Go to **Settings > Extensions**.



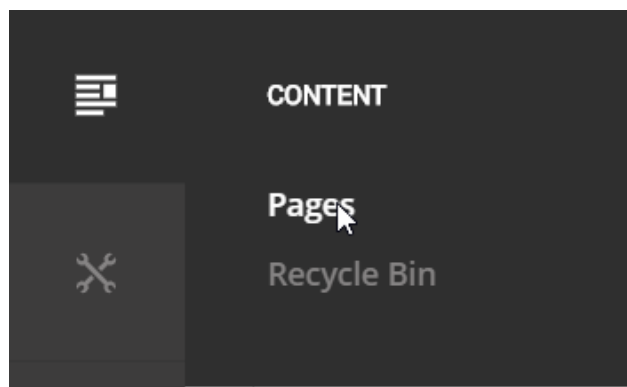
2. Click on **Install Extension**.



3. Click on **Upload a File** and select the **Revindex.Dnn.RevindexStorefront.XX.XX.XX.zip** package. Follow the install wizard instruction and complete your installation.



4. Now that you have installed the software on your system, you'll need a new page to host that module. From the persona bar, click on **Content > Pages**. Then click **Add Page** and give your page a name (e.g. "Storefront") and save.



Save as TemplateAdd Multiple PagesAdd Page

Search

DetailsPermissionsAdvanced

Storefront

Created: 4/17/2020 by SystemPage Parent: Top PageStatus: Visible

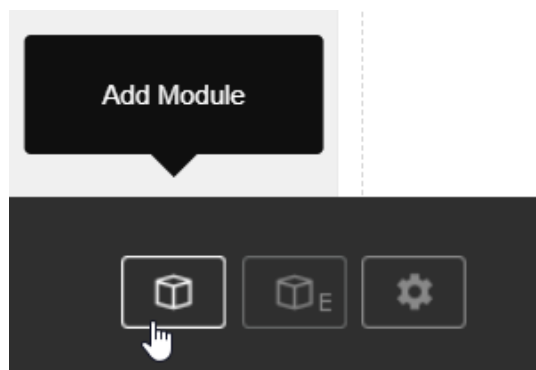
Page Type: ☒ Standard ☐ Existing ☐ URL ☐ File

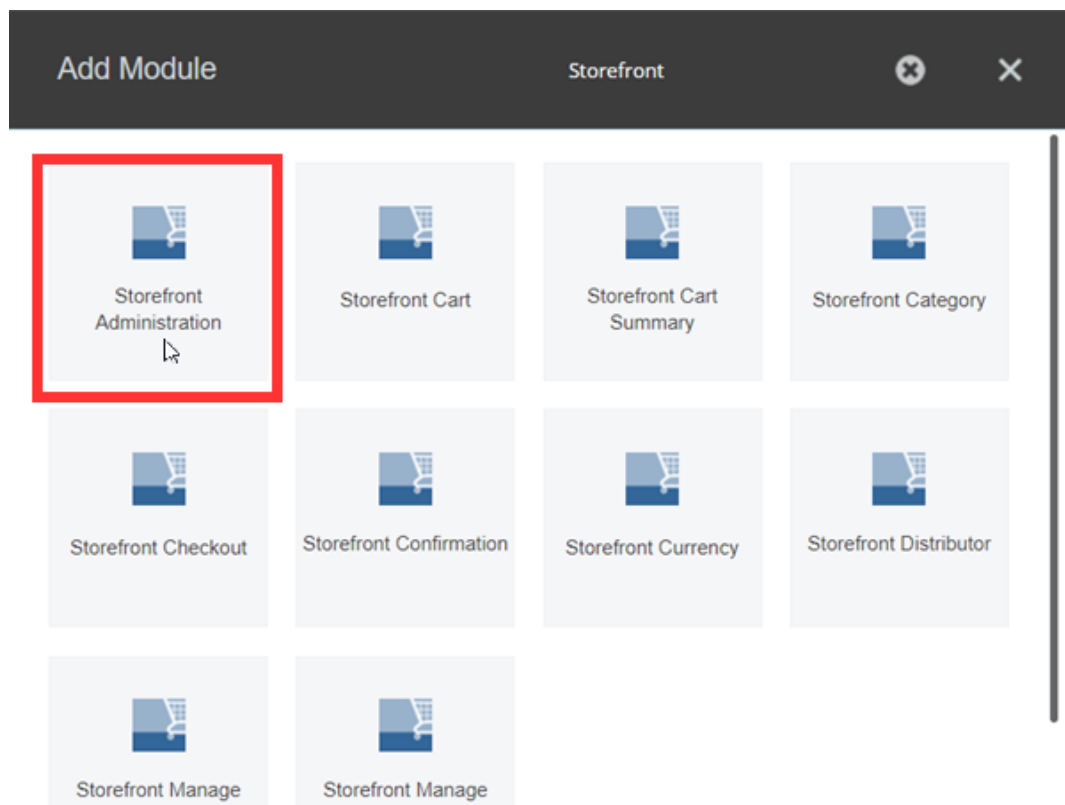
Name\* ⓘ

Storefront

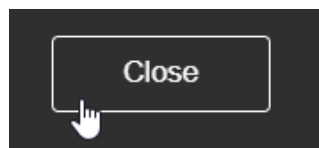
Title ⓘ

5. On the newly created page, click on **Add Module**. Select main **Storefront Administration** module and drag it to somewhere on the page. We suggest an area on the page that is full width so it can occupy a large area on screen to make catalog editing easier.





6. Please note it may take several seconds to reload the first time the Storefront is added to the page as your system needs to load up the necessary files. Click **Close** to exit the page edit mode.



You will be greeted with the installation wizard. The Storefront is composed of multiple module controls that should reside on different pages to enable a rich shopping cart experience. Click **Add selected modules** to automatically add the desired module controls to the recommended pages. You can always rename the pages, move the module controls to other pages or delete the non-required module controls afterwards. If you prefer to manually add modules later, you can cancel the install wizard.

Installer

Revindex Storefront is composed of multiple modules that should reside on different pages for a rich shopping cart experience. We recommend adding the selected modules to the suggested pages below to get started quickly. You can always rename, move or add more modules later.

<input type="checkbox"/>		Module	Description	Page
<input checked="" type="checkbox"/>		Cart <i>(required)</i>	Display products added to the cart before checkout	Cart
<input type="checkbox"/>		Cart Summary	Display a mini summary of items in the cart	Products
<input type="checkbox"/>		Cart Summary	Display a mini summary of items in the cart	Product
<input checked="" type="checkbox"/>		Category	Allow customers to browse products by categories	Products
<input checked="" type="checkbox"/>		Checkout <i>(required)</i>	Allow customers to checkout and pay	Checkout
<input checked="" type="checkbox"/>		Confirmation <i>(required)</i>	Display the confirmation page after checkout	Confirmation
<input type="checkbox"/>		Distributor	Allow customers to browse products by distributors	Products
<input checked="" type="checkbox"/>		Manage Address	Allow customers to manage their saved addresses	My Account
<input checked="" type="checkbox"/>		Manage Order	Allow customers to manage their orders	My Account
<input type="checkbox"/>		Manage Payment	Allow customers to manage their saved payments	My Account
<input type="checkbox"/>		Manage Product Download	Allow customers to manage their downloadable products	My Account
<input type="checkbox"/>		Manage Recurring Order	Allow customers to manage their recurring orders	My Account
<input type="checkbox"/>		Manage Rewards Point	Allow customers to manage their reward points	My Account
<input type="checkbox"/>		Manage Right	Allow customers to manage their access rights	My Account
<input type="checkbox"/>		Manage Voucher	Allow customers to manage their gift vouchers	My Account
<input type="checkbox"/>		Manage Wish List	Allow customers to manage their saved wish list	My Account
<input type="checkbox"/>		Manufacturer	Allow customers to browse products by manufacturers	Products
<input type="checkbox"/>		Product Comparison	Allow customers to compare products side by side	Product Comparison
<input checked="" type="checkbox"/>		Product Detail <i>(required)</i>	Display the detail of a product	Product
<input type="checkbox"/>		Product Filter	Allow customers to filter products when browsing	Products
<input checked="" type="checkbox"/>		Product List <i>(required)</i>	Allow customers to browse products	Products
<input type="checkbox"/>		Product Search	Allow customers to search for products	Products
<input type="checkbox"/>		Product Showcase	Display featured products in a rotated banner	Products
<input type="checkbox"/>		Quick Order	Allow customers to quickly place large number of orders	Quick order
<input type="checkbox"/>		Wish List	Allow customers to search for friend's wish list	Wish List

Add selected modules

No, thanks. I will manually add modules later

After installation, you may need to restart your application if you encounter any ASP.NET errors.

# Quick start settings

Your shopping cart is pre-configured with default values suitable for most businesses. In most cases, you only need to configure the **Quick Setup Wizard** to start selling.



1. Tell us about your business and what features you like to enable?

- **Configuration > General**  
Enter your store details. Enable only the advanced features you need.

2. How do you collect taxes?

- **Configuration > Taxes**  
Configure any tax rules that you need to collect.

3. How do you collect payment?

- **Configuration > Payment**  
Configure the payment methods you want to offer (credit card, PayPal, check, etc.).

4. What are the products you want to sell?

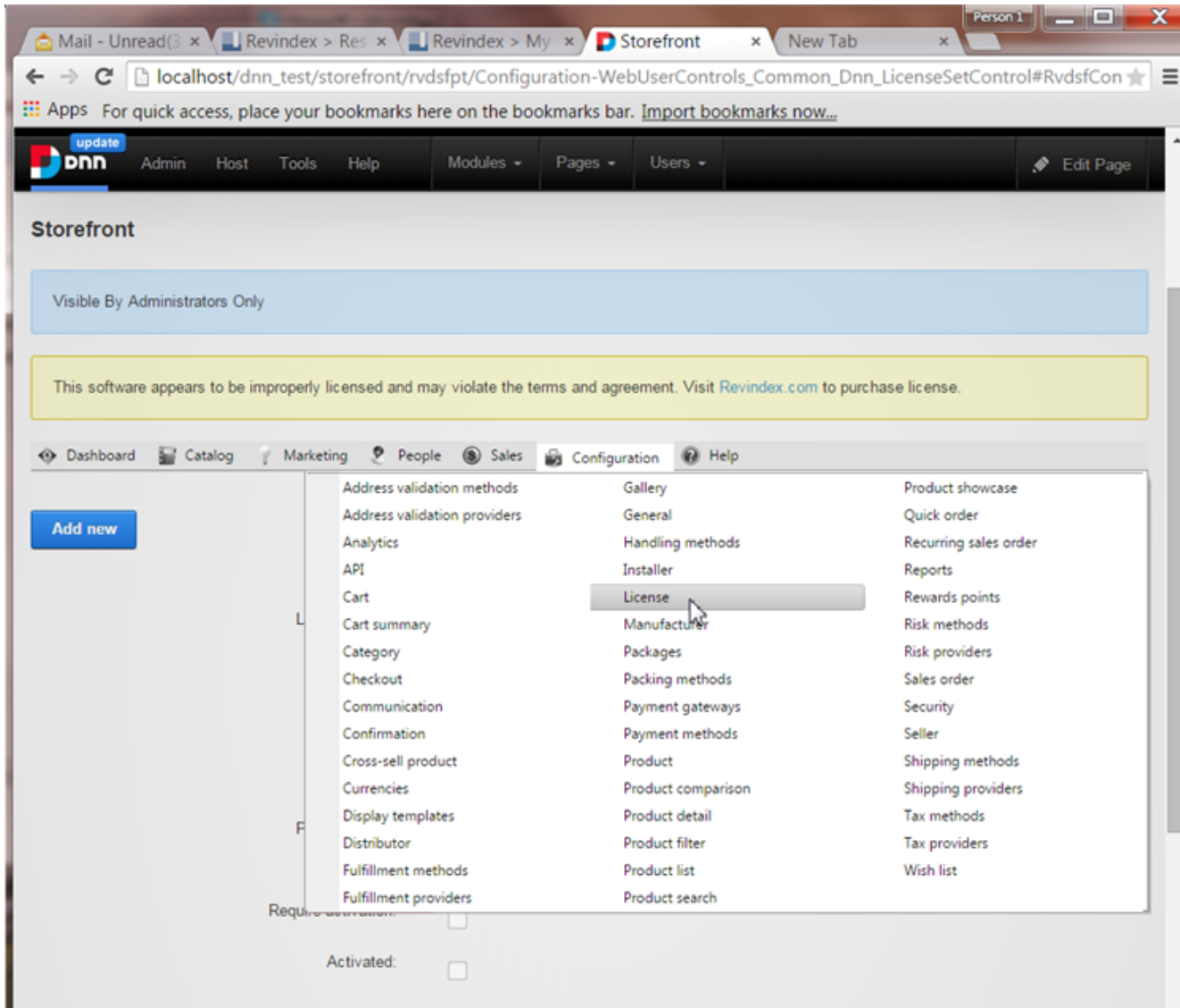
- **Catalog > Categories**  
Optionally, define the categories to group your products.
- **Catalog > Products**  
Add products to sell. Each product has a default variant where you will set your price, inventory and assign the tax class you created. You can have multiple variants (e.g. sell a black and brown variation of the same shoe).



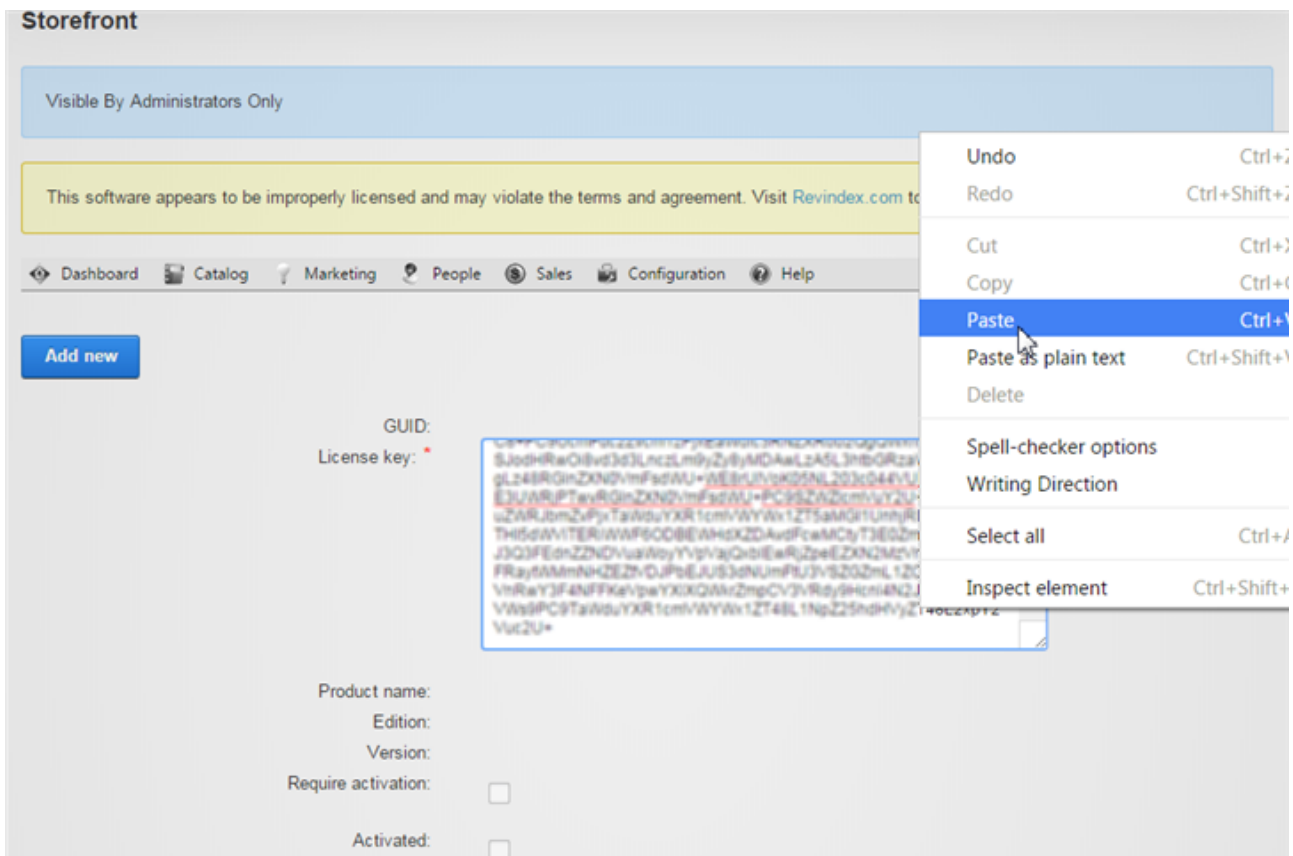
# License key

If you purchased or received a license for use, you'll need to enter it into the production software. Your license key is made available to you under your login profile at Revindex (<http://www.revindex.com/>).

Login as **Host** and go to the **Storefront** page you created. Under **Configuration > License** menu, click **Add new** and enter your license key and **Save**.







## Activation for Enterprise Edition

The following steps are only required for a site running the Enterprise edition. The Enterprise edition is licensed per physical Web server and therefore requires activating the license key for your machine hardware. Once you entered your license key, you will be presented with a button to activate your license. The number of times you can activate is limited, therefore, you should only active your license in production environment. Test environments should request a separate license key from Revindex. Click on the **Activate license now** button to activate your license.

If you have multiple sites on the same physical machine that need to share the same license key, simply copy the **DesktopModules\Revindex.Dnn.RevindexStorefront\RevindexStorefront.lic** file to your other sites' matching folder.

You can also use the following Powershell command to quickly bulk copy the license file to the other sites' folders. Simply replace the **destination path** "C:\www\\*" (note: the \* will match all sub-folders) and replace the **source path** "C:\www\Source" with your actual folder paths.

```
1 Get-ChildItem "C:\www\*\DesktopModules\Revindex.Dnn.RevindexStorefront" -Directory | ForEach-Object { Copy-
  Item -Path "C:\www\Source\DesktopModules\Revindex.Dnn.RevindexStorefront\*.lic" -Destination $_.FullName -
  Force -ErrorAction SilentlyContinue }
```

# Common installation errors

If you did not encounter any errors during installation, please skip to next.

It's important to observe and understand the type of errors during installation. Certain errors are informative whereas other errors may require you to restore from your backup.

1. **Error "Maximum request length exceeded" during upload.**

See how to avoid timeout (<http://www.revindex.com/Support/FrequentlyAskedQuestions/tabid/133/rvdwktid/how-to-avoid-timeout-when-uploading-software-435/Default.aspx>) for more info.

2. **Error "Could not load file or assembly 'IKVM... The located assembly's manifest definition does not match the assembly reference."**

If this error occurs only when the page is first loaded immediately after an installation, it is usually caused by IIS reloading the libraries and there's a temporary mismatch in the cache and is usually safe to ignore. It will clear on its own by reloading the page.

If, however, the error persists or happens everytime the Web site is restarted, you should investigate if you have conflicting DLLs (in particular, you should verify if you have the older **bin\IKVM.GNU.Classpath.dll** file and see if it can be removed safely. This DLL may have been included from other modules and is considered deprecated since it has been replaced with **IKVM.OpenJDK.\*.dll**, **IKVM.Runtime.dll** by the IKVM community and may cause conflicts.)

3. **Database installation error or installation failed error message.**

If you have database errors during installation, you should take note of the error and attempt to restore from your backup. Contact technical support for assistance.

4. **Error message "Attempted to access an unloaded AppDomain"**

Simply restart your IIS application pool to notify IIS that new DLLs have changed.

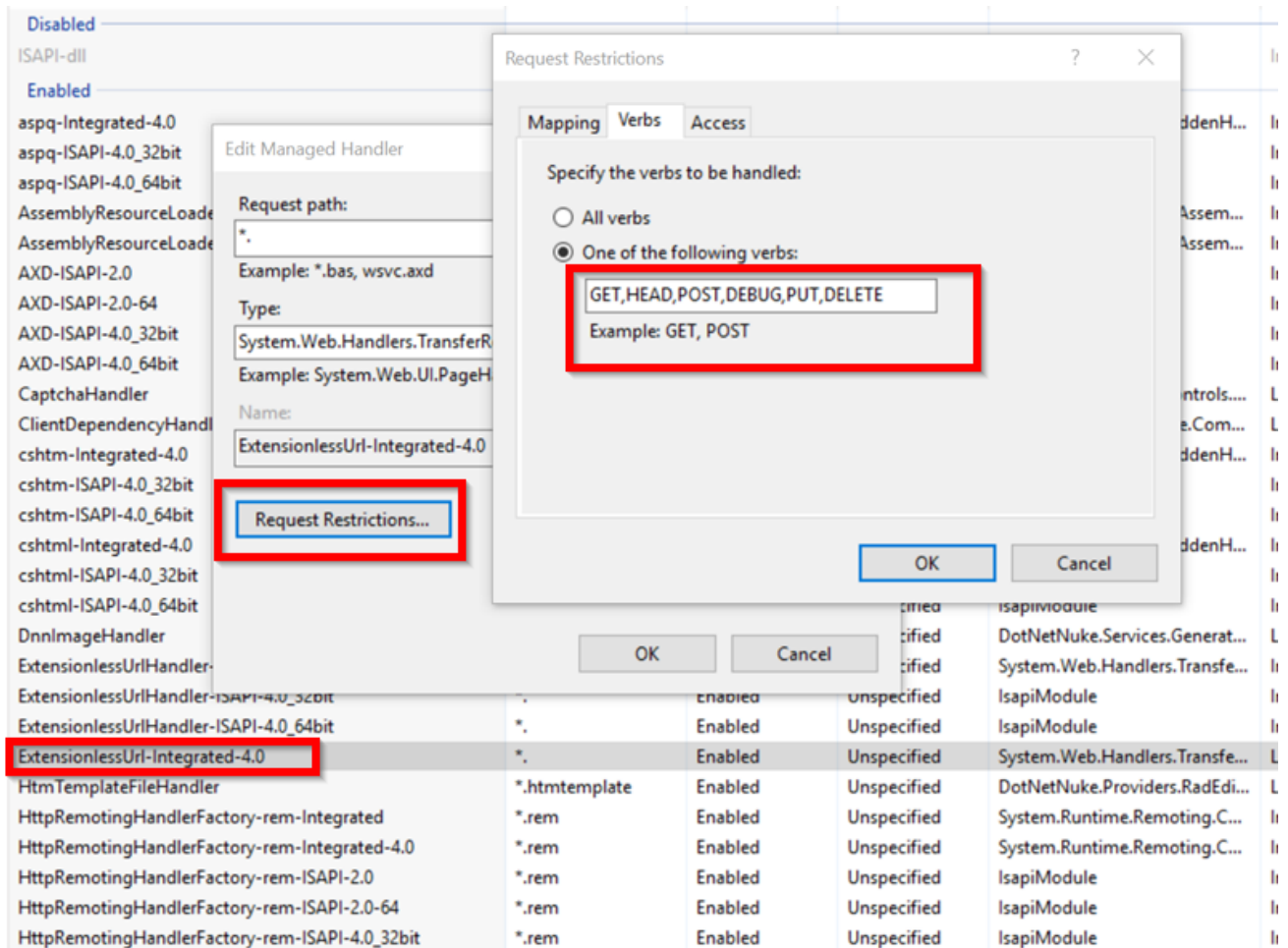
5. **Error on page "DotNetNuke.Services.Exceptions.ModuleLoadException: Index was out of range...".** This is usually caused by the fact you had deleted or not placed the required module controls somewhere on a page. The required module controls must exist on a page and it could be a hidden page if you don't want it to appear on the menu. See Adding module controls (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/adding-module-controls/rvdwkpvm/section>) for more info.

6. **Error on page "Cannot find or load template".** Make sure your configuration, products, catalogs are referencing a display template that exists. Older base display templates may be deleted with new versions of the software. If you're using custom display templates, you also want to check for syntax error and ensure your base display template still exists. See Display Templates (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/display->

templates/rvdwkpvm/section) for more info.

7. Network error accessing REST API resources with **405 Method Not Allowed** or **500 Internal Server Error** returned. Your IIS has an older configuration that is disallowing certain common REST API operations from working. For example, you might notice this error when you try to perform a delete or remove operation such as deleting a product item from the shopping cart. To remedy this problem, simply adjust the settings in your IIS Web site:

1. Under the **Handler Mappings** settings, make sure to edit the settings of every mapping that begins with **ExtensionlessUrl\*** name. Under the **Mapping** tab, the **Invoke handler only if request is mapped to** should be unchecked. The **Verbs** tab should allow **DELETE, GET, HEAD, POST, DEBUG, PUT** verbs. Under the **Access** tab should have the **Script** option selected.

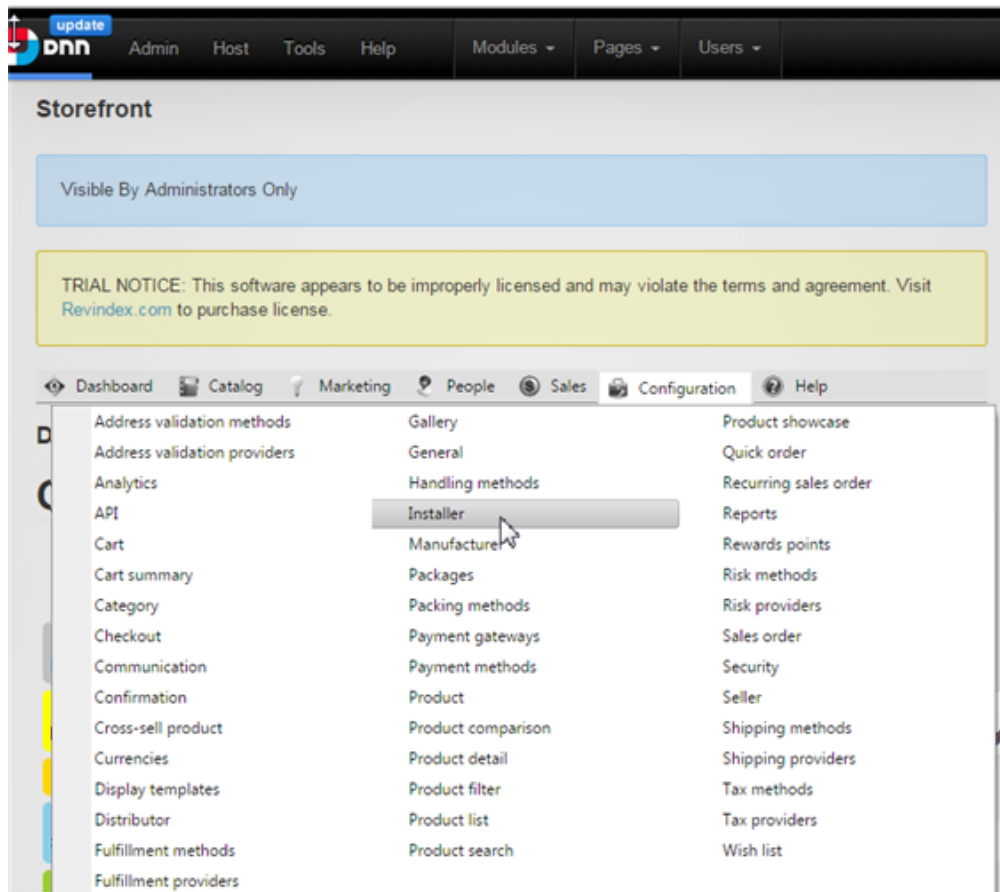


2. Under the **Handler Mappings** settings, remove **WebDAV** if present.
3. Under the **Modules** settings, remove **WebDAV** if present.

# Adding module controls

After the initial installation, you may decide to add module controls to other pages. You can follow the usual way of adding modules from the site **Modules > Add New Module** panel. If you prefer, you can also bulk add multiple modules quickly by going to the **Configuration > Installer** page.

1. Go to **Configuration > Installer**.



2. Select the desired modules. You may edit the target page as needed. Finally, click on **Add selected modules** to bulk add modules.

Installer

Revindex Storefront is composed of multiple modules that should reside on different pages for a rich shopping cart experience. We recommend adding the selected modules to the suggested pages below to get started quickly. You can always rename, move or add more modules later.

<input type="checkbox"/>	Module	Description	Page
<input checked="" type="checkbox"/>	Cart <i>(required)</i>	Display products added to the cart before checkout	Cart
<input type="checkbox"/>	Cart Summary	Display a mini summary of items in the cart	Products
<input type="checkbox"/>	Cart Summary	Display a mini summary of items in the cart	Product
<input checked="" type="checkbox"/>	Category	Allow customers to browse products by categories	Products
<input checked="" type="checkbox"/>	Checkout <i>(required)</i>	Allow customers to checkout and pay	Checkout
<input checked="" type="checkbox"/>	Confirmation <i>(required)</i>	Display the confirmation page after checkout	Confirmation
<input type="checkbox"/>	Distributor	Allow customers to browse products by distributors	Products
<input checked="" type="checkbox"/>	Manage Address	Allow customers to manage their saved addresses	My Account
<input checked="" type="checkbox"/>	Manage Order	Allow customers to manage their orders	My Account
<input type="checkbox"/>	Manage Payment	Allow customers to manage their saved payments	My Account
<input type="checkbox"/>	Manage Product Download	Allow customers to manage their downloadable products	My Account
<input type="checkbox"/>	Manage Recurring Order	Allow customers to manage their recurring orders	My Account
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<input type="checkbox"/>	Quick Order	Allow customers to quickly place large number of orders	Quick order
<input type="checkbox"/>	Wish List	Allow customers to search for friend's wish list	Wish List

Add selected modules

No, thanks. I will manually add modules later

Below is the list of recommended pages and where each module control should normally reside for your reference. As you become familiar with the application, feel free to rename the pages and rearrange the module controls to different pages on your site. Many of these modules are optional providing useful enhancements to your site and can be removed if not needed. SSL is not a requirement on any pages, but is recommended if you accept credit card directly on your site. Having SSL can help increase customer confidence shopping at your store.

Suggested Page Name	Required	Show in Menu	Permission	SSL	Module Control
Home Primary page.	No	Yes	All Users	No	<b>Product Search (optional)</b> Search for products.  <b>Product Showcase (optional)</b> Display featured products.
Storefront Main console page to administer store, orders, users, etc.	Yes	Yes	Administrators	Yes	<b>Storefront</b> Main console to administer store, orders, users, etc.

<b>Checkout</b> Payment processing page.	Yes	No	All Users	Yes	<b>Checkout</b> Payment processing.
<b>Cart</b> Shopping cart page.	Yes	Yes	All Users	Yes	<b>Cart</b> Shopping cart.
<b>Confirmation</b> Confirmation page after a successful checkout.	Yes	No	All Users	Yes	<b>Confirmation</b> Confirmation page after a successful checkout.
<b>Product</b> Product detail view page.	Yes	No	All Users	No	<b>Product Detail</b> Product detail view.  <b>Category (optional)</b> Display product categories.  <b>Distributor (optional)</b> Display distributors.  <b>Manufacturer (optional)</b> Display manufacturers.  <b>Cart Summary (optional)</b> Quick display of items in cart.  <b>Currency (optional)</b> Switch currency view.

<b>Products</b> Product list view page.	Yes	Any	All Users	No	<b>Product List</b> Product list view.  <b>Product Filter (optional)</b> Filter products in the product list view.  <b>Category (optional)</b> Display product categories.  <b>Cart Summary (optional)</b> Quick display of items in cart.  <b>Currency (optional)</b> Switch currency view.  <b>Distributor (optional)</b> Display distributors.  <b>Manufacturer (optional)</b> Display manufacturers.  <b>Product Search (optional)</b> Search for products.
<b>Product Comparison</b> Allow comparing products in a grid.	No	No	All Users	No	<b>Product Comparison (optional)</b> Product comparison view.

<b>My Account</b> Allow users to manage order, address book, payments, etc.	No	Yes	Registered Users	Yes	<b>Manage Address (optional)</b> Allow users to manage address book.  <b>Manage Order (optional)</b> Allow users to manage purchased orders.  <b>Manage Recurring Order (optional)</b> Allow users to manage any recurring orders.  <b>Manage Payment (optional)</b> Allow users to manage payments.  <b>Manage Product Download (optional)</b> Allow users to download virtual goods.  <b>Manage Rewards Point (optional)</b> Allow users to manage their rewards points.  <b>Manage Right (optional)</b> Allow users to view their access rights (license, serial, password).  <b>Manage Voucher (optional)</b> Allow users to manage their vouchers.  <b>Manage Wish List (optional)</b> Allow users to manage their wish lists.
<b>Wish List</b> Allow users to search public wish list, gift registry.	No	Yes	All Users	No	<b>Wish List (optional)</b> Allow users to search public wish list & registry.
<b>Quick Order</b> Allow users to quickly bulk order products.	No	Yes	All Users	No	<b>Quick Order (optional)</b> Allow users to quickly bulk order products (e.g. wholesaler for automobile parts)

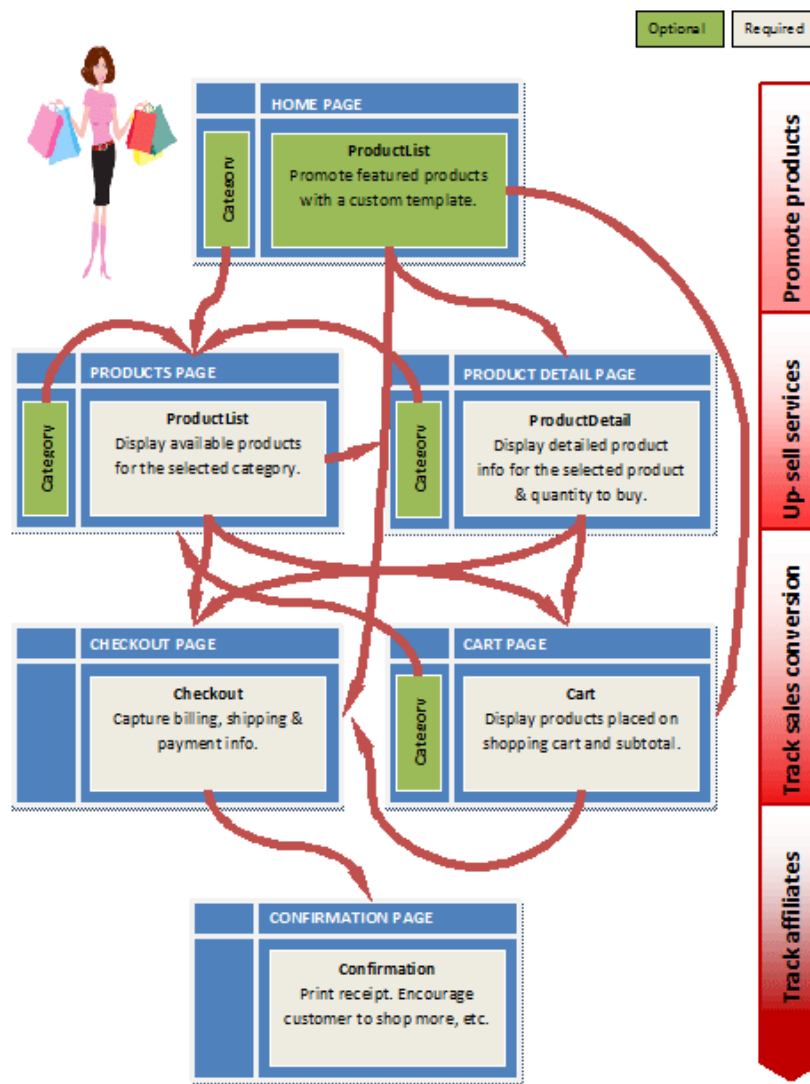


## How module controls interact

Below is a typical use case how customers interact with the different module controls. Every customer has a different buying habit. Revindex Storefront is streamlined to help make the shopping experience easier and faster. It could take as little as 2 submit clicks to complete a checkout process from Home page to Confirmation page.

The Storefront is composed of multiple module controls hosted on separate pages giving you the flexibility to customize the look and feel, functionality and security at each step of the process. For example, you may want to add Web analytics tracking on to each page to measure sales conversion to see where your customers abandon or perhaps you like to place advertisement on certain pages to up-sell services. Another example is you may want use the module controls individually to promote featured products on a completely separate page from the rest of your shopping cart.

You are free to mix and match the different module controls together as long as you have the required core module controls hosted on pages somewhere on your site. You are encouraged to rename and organize the pages and module controls to make your site friendlier.





MY ACCOUNT PAGE	
	ManageOrder
	ManageRecurringOrder
	ManagePayment
	ManageAddress
	ManageProductDownload
	ManageWishList

STOREFRONT PAGE	
	Storefront Administer catalog, taxes, promotions, orders, collect payment, etc.



## How to move modules

You can move modules to other pages by following the steps below:

1. Click on **Settings** from your module's **Manage** action menu.
2. Under **Page Settings** tab, expand the **Advanced Settings** panel.
3. Choose the page to move the module to under the **Move To Page** dropdown option.

### How to move a module in DotNetNuke



# How to SSL secure your pages

In order to secure your pages when transmitting customer information over the internet (e.g. checkout, cart, registration, login pages, etc.), you need to enable SSL on your site (also known as HTTPS protocol).

You must first have a valid SSL certificate for your site and have it installed on your IIS server by your administrator. Follow the remaining steps to configure SSL on your DotNetNuke web site:

1. Login as **Host** user.
2. Go to **Admin > Site Settings** page.
3. Under the Advanced Settings tab, expand the SSL Settings panel.
4. Check the **SSL Enabled** checkbox.
5. Check the **SSL Enforced** checkbox. When this option is set, pages which are not marked as Secure will not be accessible with SSL (HTTPS).
6. Optionally enter a **SSL URL** only if you do not have a dedicated SSL Certificate installed for your site. An example would be a shared hosting account where the hosting company provides you with a shared SSL URL.
7. Optionally enter the **Standard URL**. If an **SSL URL** is specified above, you will also need to specify a Standard URL for unsecure connections.
8. Save your changes.

You will now need to indicate which pages need to be SSL secured. Typically, this should be any pages where sensitive customer information may be transmitted over the Internet such as Login, Registration, Cart, Checkout, Confirmation and Account pages.

1. For each page needing to be SSL secured, go to its **Page Settings**. Under the Advanced Settings tab, expand the Other Settings panel and mark the **Secure** checkbox.
2. Save your changes.

# How to improve performance

Performance is dependent on several factors such as hardware, network speed, server load, etc. There are several things you can do on the software side to improve performance:

- Ensure you are running .NET 4.5+ framework.
- Ensure you are running the latest version of Revindex Storefront running the newest display templates. Newer releases often have significant performance enhancements.
- Enable IIS static and dynamic compression. This will significantly improve download time.
- Install Revindex Optimizer (<http://www.revindex.com/ProductDetail/tabid/138/rvdsfpid/revindex-optimizer-1-0-9/Default.aspx>) to speed up page loading time by up to 50%.
- Remove any unnecessary module controls on your page (side banner, footer, etc.).
- Make sure your web.config SQL connection string specifies **MultipleActiveResultSets=True** as shown in the example below:

```
<add name="SiteSqlServer" connectionString="Data Source=localhost; Initial Catalog=DNN; Integrated Security=True; MultipleActiveResultSets=True;" providerName="System.Data.SqlClient" />
```

- Set your DNN **Cache Settings** to "Heavy" under **Host > Host Settings** page. Please note caching takes effect and builds up speed after the first page visit.
- Enable Page output cache for most of your static pages as well as for the Product List page. From the page settings, select the MemoryOutputCachingProvider and set a reasonable cache duration like 1800 seconds. Make sure to Include params by default.
- Make use of content delivery network (CDN) to host your common client scripts under **Host > Host Settings** page.
- Make use of **Client Resource Management** composition and minify files under **Host > Host Settings** page.
- Make sure to **Enable Event Log Buffer** under **Host > Host Settings** page to avoid writing to disk everytime a log is generated.
- Uncheck the **Auto-Sync File System** under **Host > Host Settings** page if you don't use FTP to avoid querying the disk for new files.
- Reduce the high frequency runs of unimportant jobs under **Host > Schedule** page. For example, you don't always need to index your search every minute and can increase to 15 minutes.
- Uninstall extensions that you don't use under **Host > Extensions** page to reduce memory consumption.
- Ensure your hosting does not place a limit your application pool's memory or CPU usage.
- If you have a low traffic site, ensure your site is up and running using a keep-alive service to ping your site every 15 minutes. If your site idles too long, your hosting provider or IIS may shut down the process causing the first visit to take a long time to start up again.

In terms of hardware changes:

- Ensure you have lots of free memory on the server so that your OS is not swapping to disk and the Web server is able to cache as much data as possible.

Ideally, ensure the system can cache all your products to memory. You can roughly calculate how much memory is needed for simple products = **Avg. DB row size X Number of products X 10 factor**. The factor of 10 will increase quickly if your product is complex and have many variants and attributes, so please test accordingly. For example, if your database product table uses about 1 KB of storage per row and you have 10,000 products, you can approximate a memory consumption of 100 MB just for caching products. To find the row size, you can simply view your table properties and look for the table storage size and divide by the number of rows in that table.

- Get faster hard drives for your database and file server. It's about the number of IO per second and not about storage size (SSD or 10K/15K rpm hard drives in RAID are recommended).
- Get a very fast CPU for your Web server especially if you intend to use a lot of dynamic rules and promotions.
- Revindex Storefront supports Web farm configuration allowing you to spread the load over multiple Web servers.
- Ensure you have a fast ethernet connection between your Web server and database server if they're on separate machines (1 Gbps or higher is recommended).
- Ensure you have a fast public network (100 Mbps or more).

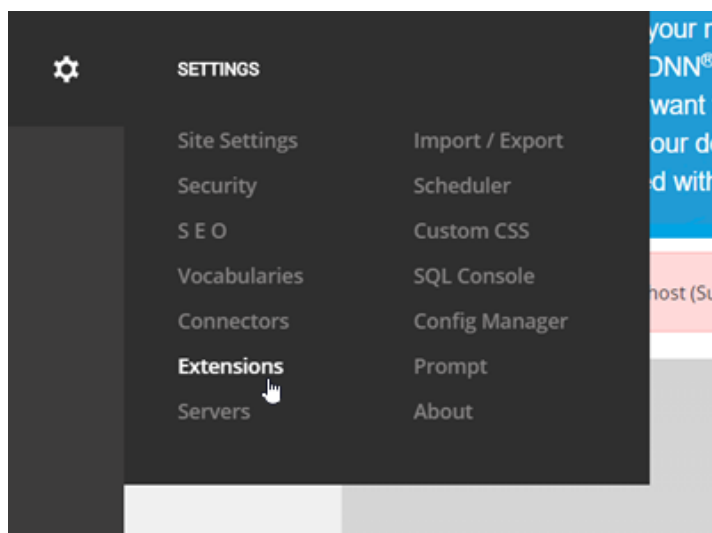
How you configure your Storefront will also determine the general performance of your shop:

- Group your products using multiple categories and sub-categories to avoid displaying too many products on a single page. It's generally ineffective to list thousands of products on one category even with paging enabled, when the average customer never navigates past the 2nd page. Most major shopping sites use this approach to speed up performance. For example, a good way is to mark a limited number of products as Featured products, therefore, showing only the subset of products when no category is being selected instead of showing all products. Likewise, sub-category is a great way to force customers to quickly narrow down to what they're looking for instead of paging through hundreds of pages. In general, aim for no more than a hundred products per category.
- Avoid creating unnecessary product variants when you can create product options with custom fields. Product variants are generally used when you need to track distinct inventory and SKU for each product option.
- Limit the use of product filter for only important attributes. Balance between speed and ease of navigation for your customers. Product filter is generally an intensive operation. Learn to take advantage of other forms of navigation filters like product search, category, manufacturer, distributor, etc.
- Reduce the number of unnecessary modules on your page that can clutter and slow down the page rendering.
- Set a small but reasonable limit on the number of results to show under **Configuration > Product List** and **Configuration > Product Search** settings. Study shows 80% of customers don't navigate past the 2nd page (e.g. 100 is a good limit). Rather than setting a high limit and expect the customer to click through 20 pages of products, you should emphasize the use of the product search module instead.
- Disable natural sort under **Configuration > Product list** settings. The natural sort algorithm is an expensive operation.
- Make sure your **Log Level** is set to "Error" mode under **Configuration > General** settings so that you're not logging unnecessary debug information.

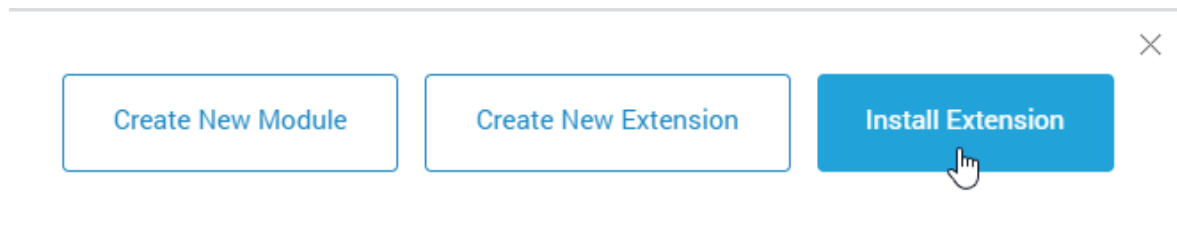
# How to upgrade

We made sure upgrading is as painless as possible. Normally, it entails uploading the software and follow through the wizard and entering the new license key, if any. Revindex Storefront will automatically detect the running version and perform the necessary upgrade retaining your settings. However, we would like to share some best practices you should follow.

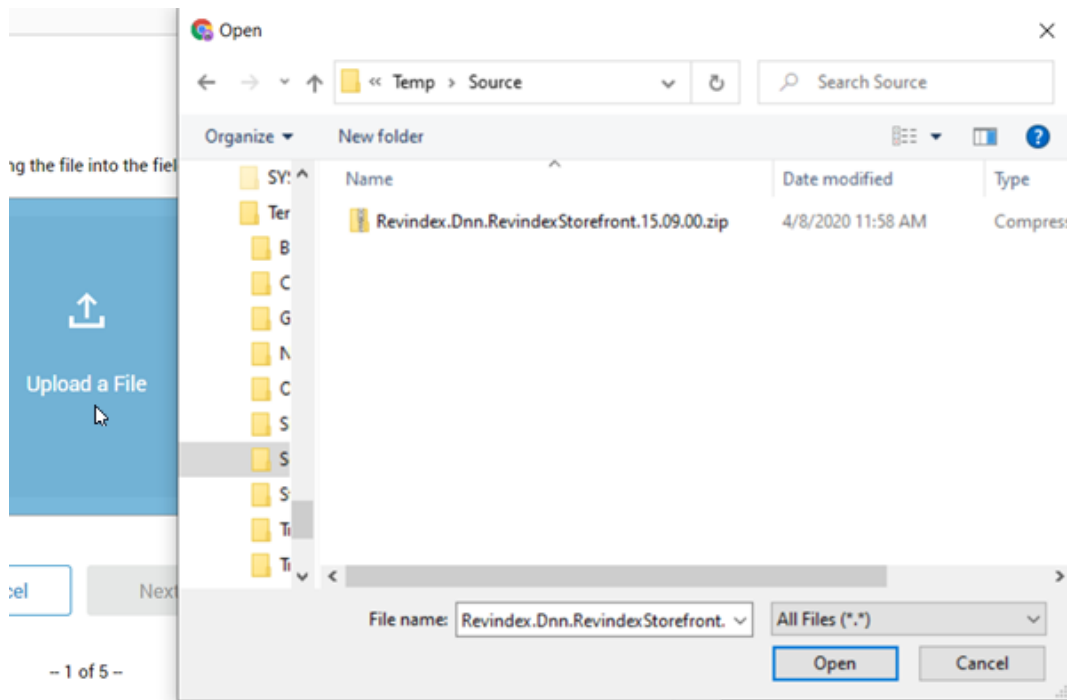
1. If you're upgrading to a new major version (e.g. upgrade from version 7.1 to 8.0), verify that your license key is valid for the new version. Contact Revindex sales if you have any questions about your license key.
2. Read the Release notes (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/release-notes/rvdwkpvm/section>) for any requirement or breaking changes introduced in the new version of the software. In particular, you should pay attention to the following points before upgrading:
  - Any obsolete base display templates that have been removed from the new software, usually base display templates older than 1 year. The older the base template, the smaller the version number (e.g. Standard1, Standard2). Any custom display templates (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/display-templates/rvdwkpvm/section>) using these very old base display templates will need to be recreated or merged to a higher base version. Please see How to upgrade display templates (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-upgrade-display-templates/rvdwkpvm/section>) for more information.
  - Any CSS style and class name changes if you're customizing the look-and-feel by overriding the style classes that are included with the Storefront.
  - If you're using the Revindex Storefront API, make sure you test the upgrade on a development machine first before upgrading the production site to ensure your API calls work correctly.
3. Take a complete backup of your system.
4. Go to Site **Host > Extensions**.



5. Click on **Install Extension Wizard**.



6. Upload the **Revindex.Dnn.RevindexStorefront.XX.XX.XX.zip** package and follow the install wizard instruction. If you are installing the production software over the existing Trial edition, select **"Repair Install"** checkbox when prompted.



If you encounter the "Attempted to access an unloaded AppDomain" message, simply restart your IIS application pool to notify IIS that new DLLs have changed.

7. If Revindex issued you a new license key, make sure to delete the old license key and enter the new one. Please see License key (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/license-key/rvdwkpvm/section>) for more information.
8. Perform spot tests and verify any customizations you previously made continue to work.

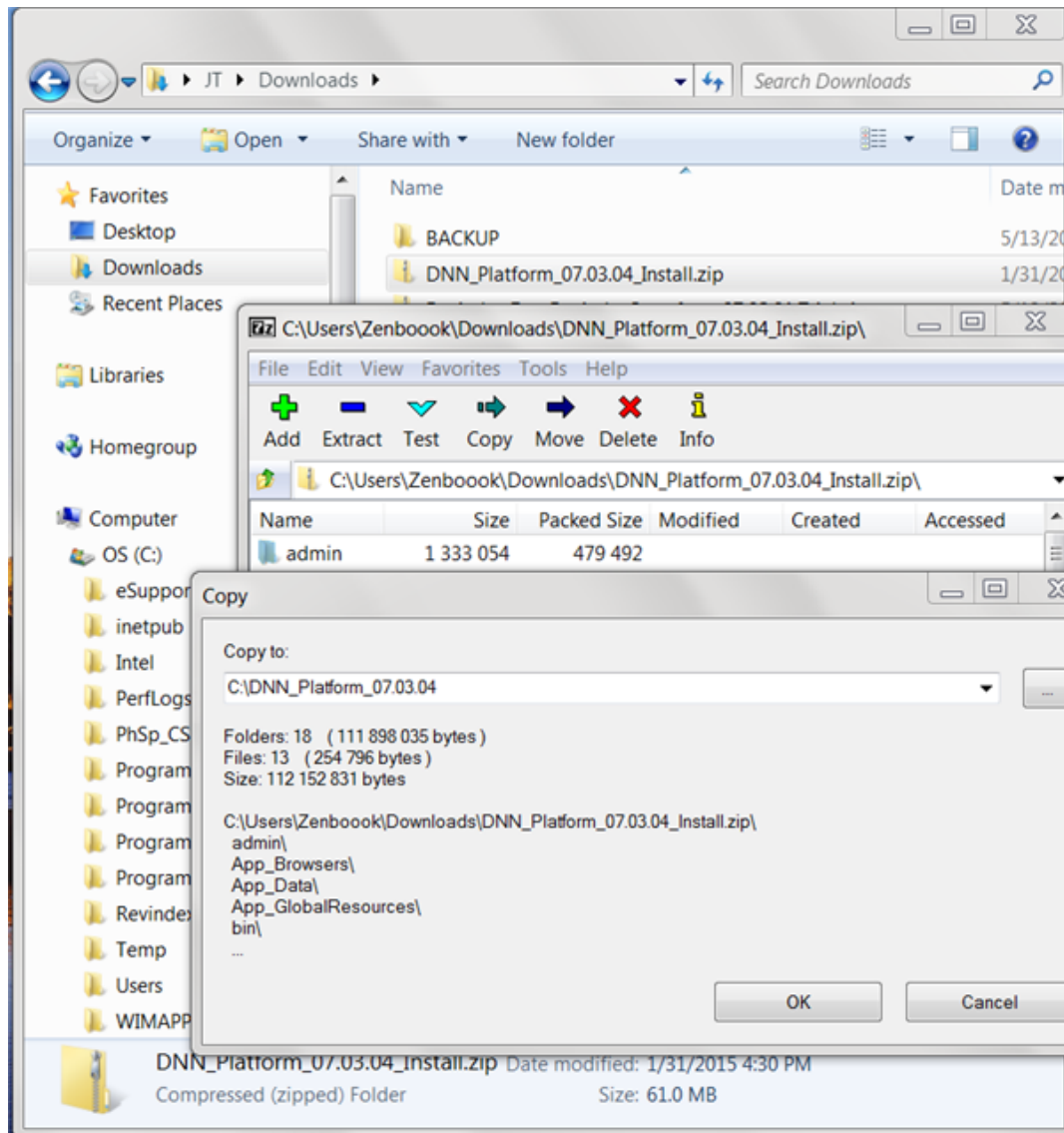
For more information, please read the How to upgrade a DNN module or the importance of backing up (<http://www.dnnsoftware.com/community-blog/cid/134807/how-to-upgrade-a-dnn-module-or-the-importance-of-backing-up>) blog.

If you're running tests on a development/staging machine with production data copied over and you sell recurring products, make sure to disable any recurring orders or change the payment gateway credentials, otherwise it will automatically charge your customer's credit card when the order is due for renewal.

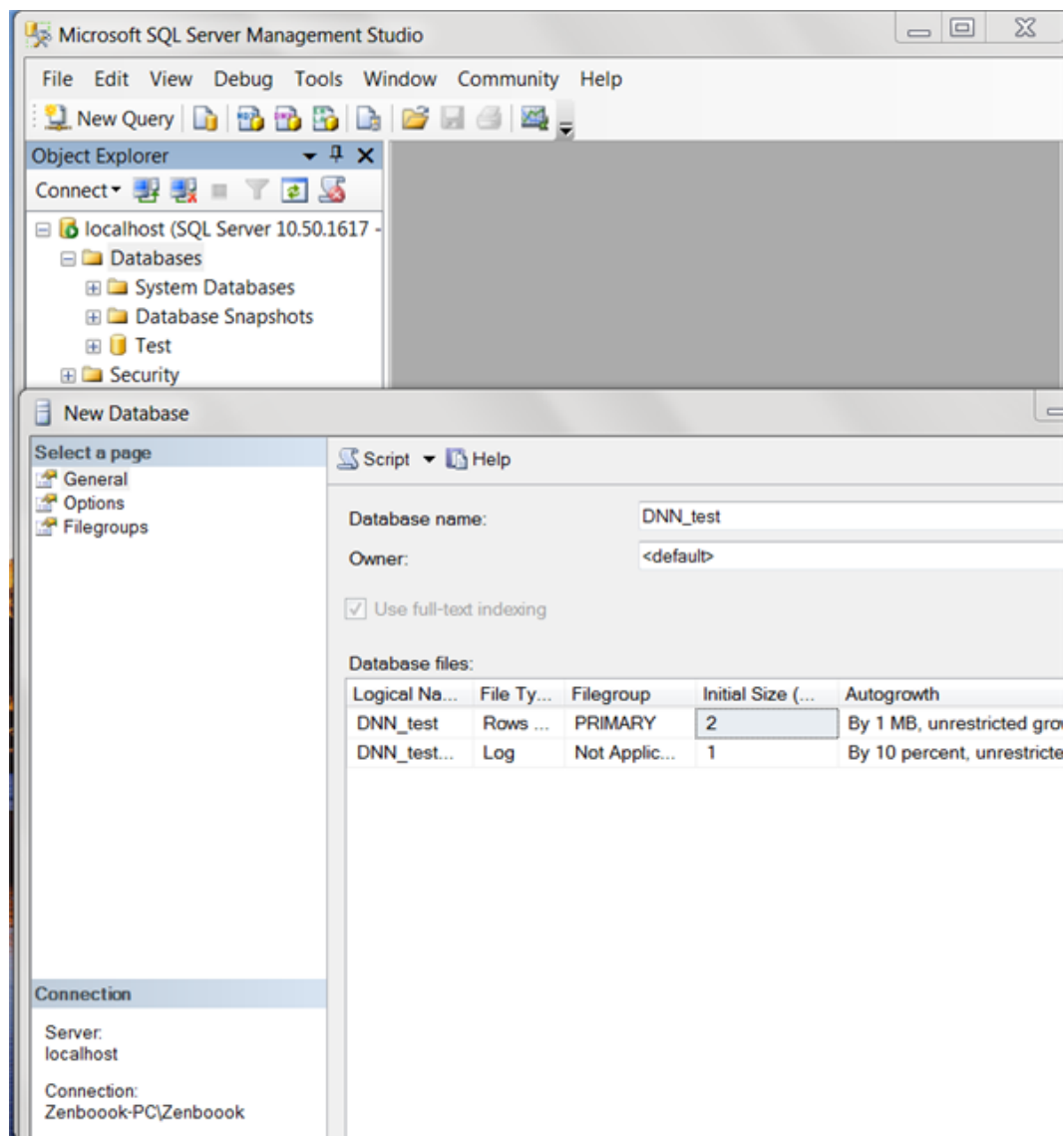


# How to install DNN on local machine

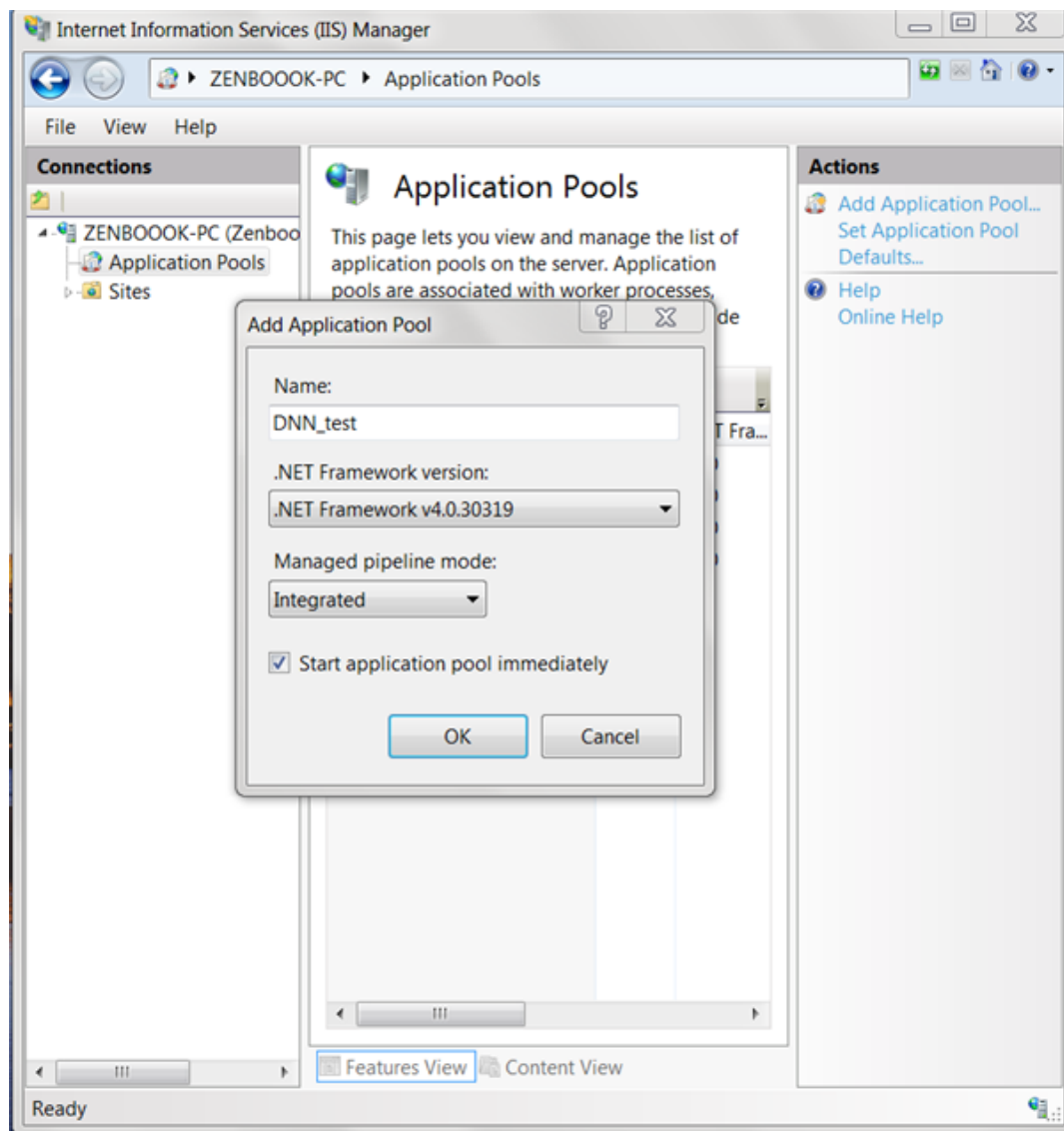
1. Unzip DNN\_Platform\_x.x.x.zip to c:\DNN\_Platform\_x.x.x folder.

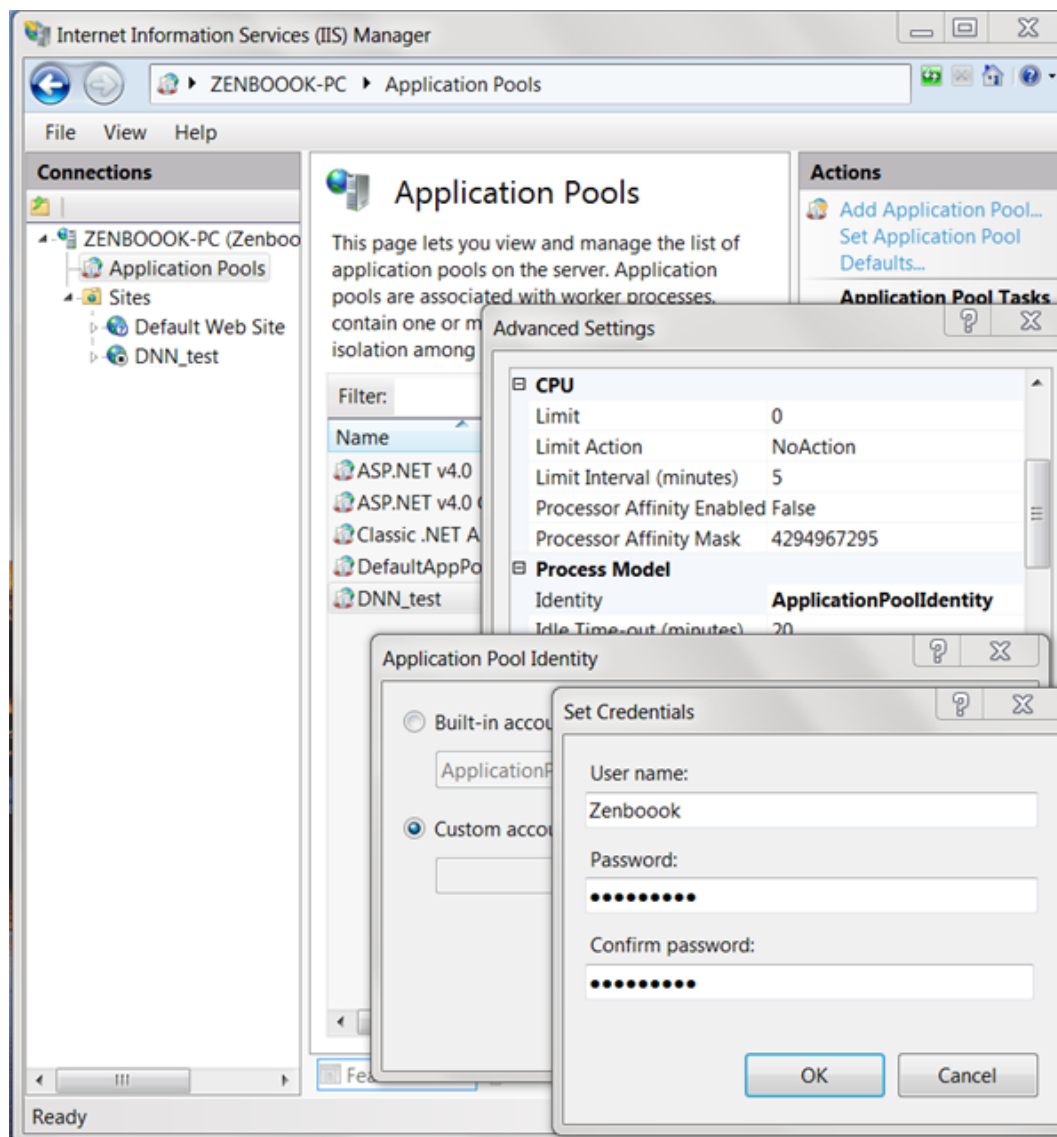


2. Create new database called DNN\_test with MSQLSMS.

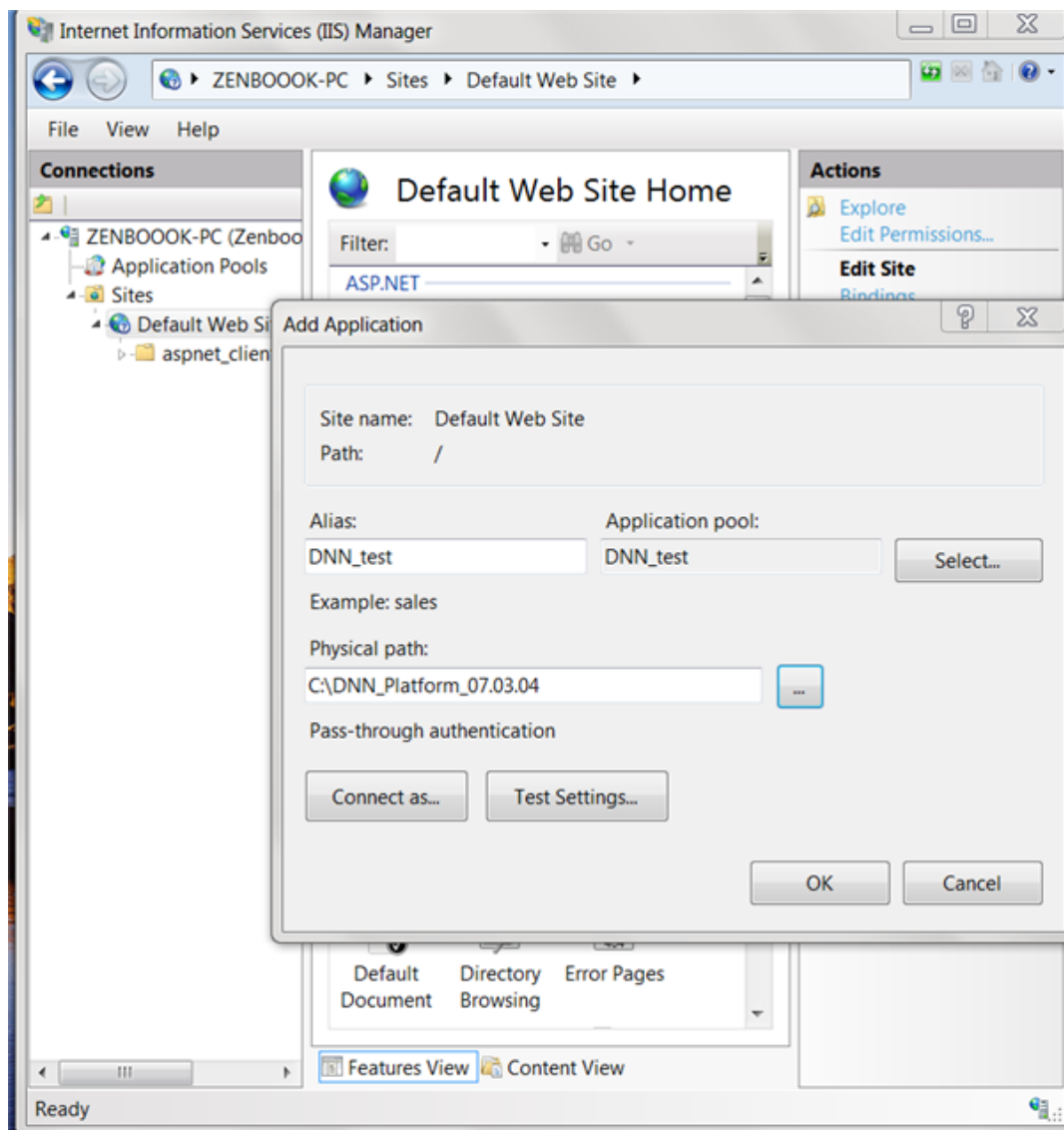


3. Add Application Pool called DNN\_test with IIS Manager and under **Advanced Settings**, change the **Application Pool Identity** to custom account for DNN\_test. You'll be prompted for your **Credentials** (your Window's user and password).

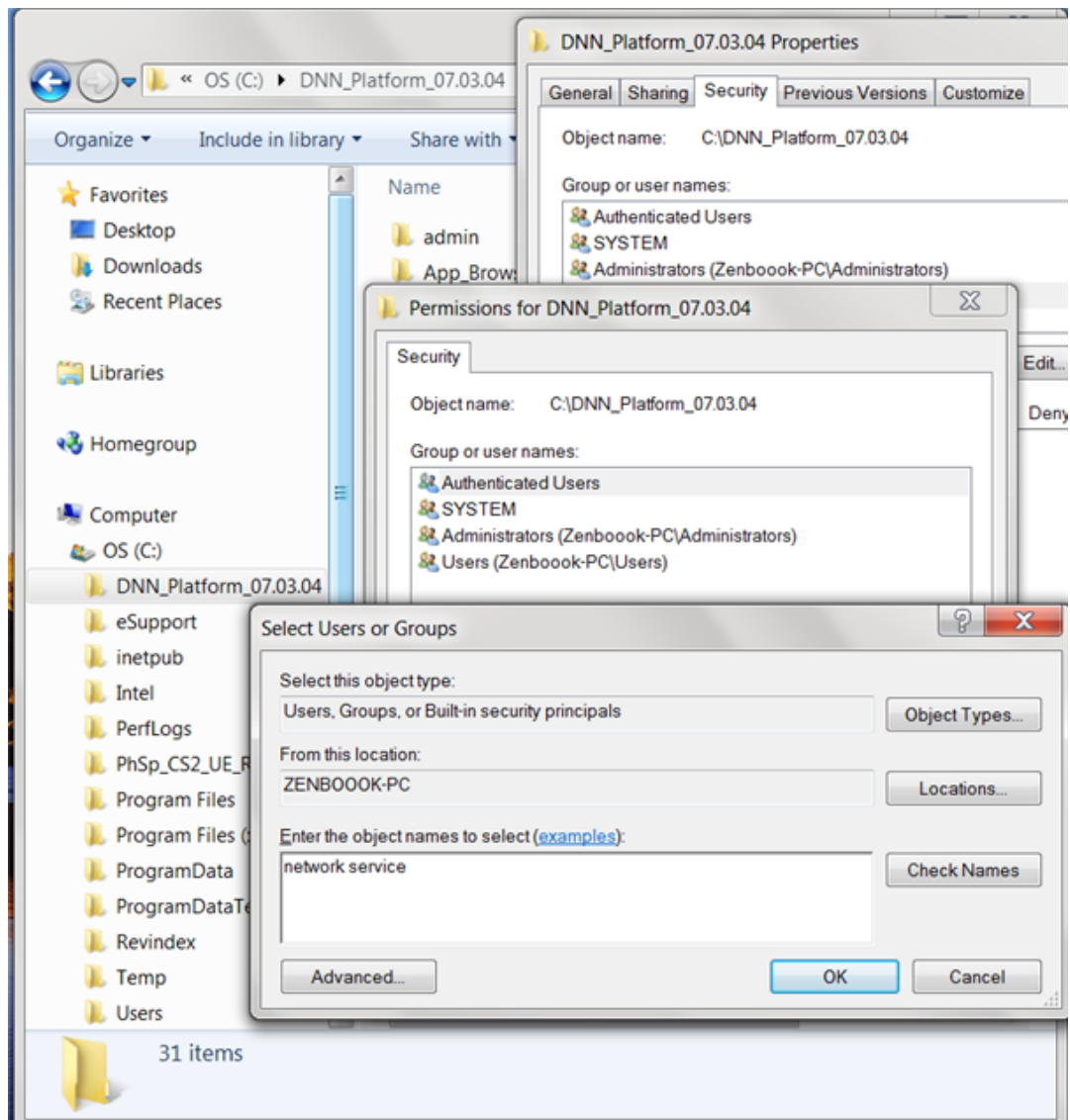




4. Under Sites > Default Web Site, add Application called DNN\_test.



5. Change file permission on previously installed DNN\_Platform\_x.x.x folder.



6. At [http://localhost/DNN\\_test/](http://localhost/DNN_test/), enter the host and password (e.g. host, dnnhost) and point to relevant local test SQL.

Installation

localhost/DNN\_test/Install/InstallWizard.aspx

Apps For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

# Installation

1 Enter Your Account Information

2 Proceed with Installation

View

To setup your Installation, enter the following information. [View Installation Video](#)

## Administrative Information

Username \*

host

Password \*

.....

7-character minimum

WEAK

Confirm \*

.....

Email address: \*

host@change.me

## Website Information

Website Name \*

My Website

localhost/DNN\_test/Install/InstallWizard.aspx#installAccountInfo

Installation

localhost/DNN\_test/Install/InstallWizard.aspx

Apps For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

Template ⓘ

Default Website

Language ⓘ

English (United States)

Database Information

Unable to connect to database

Database Setup ⓘ

☐ Default ☒ Custom

Database Type ⓘ

☐ SQL Server Express File ☒ SQL Server/S

Server Name \* ⓘ

localhost

Database Name \* ⓘ

DNN\_test

Object Qualifier ⓘ

Security ⓘ

☒ Integrated ☐ User Defined

Run Database As ⓘ

☒ Database Owner



# Web farm

This is an advanced topic for businesses running multiple servers. You can skip this topic if you're running a single machine.

Revindex Storefront supports large Web farm installation (running across multiple Web servers) allowing you to scale to millions of customers. Web farm is a complex setup and should only be configured by experienced administrators with strong understanding of network, IIS, ASP.NET and DNN. Improper configuration of Web farm will result in instability of your system.

A common form of Web farm setup involves directing the user to a random or weighted Web server for each incoming Web request. Therefore, you need to ensure every Web server is capable of accessing the session information of the user, otherwise the user may see inconsistent data navigating from one page to another.

By default, as of version 6.3.1, the Storefront uses ASP.NET session to store state information (in older versions, the Storefront uses DNN data cache object). This means your Web farm needs to be configured to use State Server or SQL Server mode ([http://msdn.microsoft.com/en-us/library/vstudio/ms178586\(v=vs.100\).aspx](http://msdn.microsoft.com/en-us/library/vstudio/ms178586(v=vs.100).aspx)) to preserve session across machines. Other equivalent variation of this concept that allows sharing of session information out-of-process may also work (e.g. Windows Azure has several equivalent implementations of session storage modes (<https://www.simple-talk.com/cloud/platform-as-a-service/managing-session-state-in-windows-azure-what-are-the-options/>) such as TableStorage, SQL Azure, Windows Azure Caching, etc. as well as other 3rd party session providers like NCache, etc.).

If you're unable to change your session provider, you can try to shift the session responsibility from ASP.NET to DNN by configuring the Storefront to persist session information to DNN's data cache object. In this case, you will also need to ensure your DNN cache mode is using an out-of-process caching provider (e.g. AppFabric, NCache, Memcached, etc.). To configure the Storefront to use DNN data cache object, you need to add the key to your Web.config's **appSettings** section (please note that every Web server must be configured the same way):

```
<add key="SessionProvider" value="dnncache" />
```

Finally, if you're unable to employ any of the session storage modes above, you can configure your load balancer to direct all incoming requests from the same source IP address to the same Web server. This sticky IP routing approach alleviates any need to share session since it essentially operates as one Web server from the user standpoint.

# How to uninstall

Make sure to perform a complete backup of your system before performing the following steps.

1. Go to **Host > Extensions** and uninstall all **"Storefront"** modules. It's recommended to keep files on the system by leaving the **"Delete Files"** checkbox unchecked.

To quickly uninstall all Storefront modules, you can go to the Storefront **Configuration > Installer** menu. Then append the special query string "?Uninstall=1" to the URL and hit Enter on your browser. You will then be presented with a button to **Uninstall Revindex Storefront**. Click on it to uninstall all modules at once.

2. Go to **Host > Schedule** and remove **"RevindexStorefront.\*"** scheduler item.
3. It's not necessary to delete module files. Leaving module files on the system will not consume memory or CPU when unused. Deleting library files may affect other modules that rely on any shared assemblies. The following files may be deleted if absolutely necessary:

**bin\Revindex.\*.dll**

**DesktopModules\Revindex.Dnn.RevindexStorefront\\***

# How to re-install with data

Under normal circumstances, you should never need to re-install Revindex Storefront from scratch unless your DotNetNuke system is corrupted beyond repair and needs to be re-installed cleanly. The following step is a rough guideline to try to retain the data if you come to the point where you need to re-install.

Make sure to perform a complete backup of your system before performing the following steps.

1. Take a full backup of your files and database.
2. Create a copy of your database. Give your temporary database a name such as "Temp1". Please see this topic (<http://technet.microsoft.com/en-us/library/ms188664.aspx>) for more information on copying your database.
3. From SQL Server Management Studio, delete all Revindex\_Storefront\_\* tables from your temporary database.
4. Export the data to your temporary database using SQL Server Management Studio:
  - i. Right mouse on your live database and click **Tasks > Export Data**.
  - ii. Follow the wizard and select live database you are exporting the data from.
  - iii. Select the temporary database you are exporting the data to.
  - iv. Select **"Copy data from one or more tables or views"**.
  - v. Select all the Revindex\_Storefront\_\* tables.
  - vi. Click **Finish**.
5. From your DotNetNuke **Host > Extensions** page, uninstall Revindex Storefront and select **Delete files** checkbox.
6. Install a new instance Revindex Storefront with the same version as the previous Revindex Storefront. If you're re-installing DotNetNuke, make sure your portal ID number is also the same.
7. To restore your data, use SQL Server Management Studio:
  - i. Right mouse on your live database and click **Tasks > Import Data**.
  - ii. Follow the wizard and select the temporary database (e.g. "Temp1") that you will be importing the data from.
  - iii. Select your live database where you will be importing the data to.
  - iv. Select **"Copy data from one or more tables or views"**.
  - v. Select all the Revindex\_Storefront\_\* tables.
  - vi. On each selected table, click on **Edit Mapping** and select **Delete rows in destination table** checkbox and select the **Enable identity insert** checkbox. Look for any column with the type "timestamp" and mark its Destination as "<ignore>".

vii. Click **Finish**.

8. To restore any template customizations, copy all the files from your backup under **\\DesktopModules\\Revindex.Dnn.RevindexStorefront\\Portals\\X** where X is your portal ID number to the same respective folder location on your live site. Also copy all files from **\\DesktopModules\\Revindex.Dnn.RevindexStorefront\\App\_LocalResources** to the same respective folder on your live site to restore any static localization text changes you may have made.

# How to migrate product data

If you run multiple environments such as a test and a production environment, you can follow the suggested approach to copy your product data from production (source) to your test (target) environment. Please note, it is not recommended to copy data from test to production environment.

Please ensure to take full backup first before starting the migration. This is an advanced topic and should only be performed by an experienced administrator who has strong understanding of DNN, SQL database and Revindex Storefront. The information provided here is to be used at your own risk without any warranty or support.

The following assumptions are required to successfully refresh the product data:

- Both environments operate the same software version
- Both environments have the same number of portals and Portal ID numbers.
- You don't require retaining sales orders, product reviews, voucher history data in the target database.
- You are not interested to refresh the Users data.

In order to refresh the product tables, the general idea is to delete the data at the target database first followed by inserting back from the source database. Because many adjacent tables rely on the data from these tables that are being refreshed, we also need to delete the data from the adjacent tables to maintain integrity. For example, we need to delete the data from the Revindex\_Storefront\_ProductReview, Revindex\_Storefront\_SalesOrderDetail, etc.

Using SQL Server Management Studio:

1. Execute the following SQL statements to delete data in your target database:

```
DELETE FROM [dbo].[Revindex_Storefront_Right]
DELETE FROM [dbo].[Revindex_Storefront_ProductChannel]
DELETE FROM [dbo].[Revindex_Storefront_CrosssellProduct]
DELETE FROM [dbo].[Revindex_Storefront_AddressValidationMethod]
DELETE FROM [dbo].[Revindex_Storefront_RewardsPointHistory]
DELETE FROM [dbo].[Revindex_Storefront_RewardsPoint]
DELETE FROM [dbo].[Revindex_Storefront_ProductVariantOption]
DELETE FROM [dbo].[Revindex_Storefront_ProductVariantGroupOption]
DELETE FROM [dbo].[Revindex_Storefront_ProductVariantGroup]
DELETE FROM [dbo].[Revindex_Storefront_VoucherHistory]
DELETE FROM [dbo].[Revindex_Storefront_Voucher]
DELETE FROM [dbo].[Revindex_Storefront_WishListDetail]
DELETE FROM [dbo].[Revindex_Storefront_ProductAttribute]
DELETE FROM [dbo].[Revindex_Storefront_ProductAttributeDefinitionSelection]
DELETE FROM [dbo].[Revindex_Storefront_ProductAttributeDefinition]
DELETE FROM [dbo].[Revindex_Storefront_ProductAttributeGroup]
DELETE FROM [dbo].[Revindex_Storefront_Gallery]
DELETE FROM [dbo].[Revindex_Storefront_RelatedProduct]
DELETE FROM [dbo].[Revindex_Storefront_RequiredProduct]
```

```

DELETE FROM [dbo].[Revindex_Storefront_SalesOrderDetail]
DELETE FROM [dbo].[Revindex_Storefront_RecurringSalesOrder]
DELETE FROM [dbo].[Revindex_Storefront_ProductCategory]
DELETE FROM [dbo].[Revindex_Storefront_ProductReview]
DELETE FROM [dbo].[Revindex_Storefront_ProductPart]
DELETE FROM [dbo].[Revindex_Storefront_ProductComponent]
DELETE FROM [dbo].[Revindex_Storefront_ProductVariant]
DELETE FROM [dbo].[Revindex_Storefront_RightDefinition]
DELETE FROM [dbo].[Revindex_Storefront_VoucherDefinition]
DELETE FROM [dbo].[Revindex_Storefront_Product]
DELETE FROM [dbo].[Revindex_Storefront_SalesPayment]
DELETE FROM [dbo].[Revindex_Storefront_Category]
DELETE FROM [dbo].[Revindex_Storefront_Distributor]
DELETE FROM [dbo].[Revindex_Storefront_Manufacturer]
DELETE FROM [dbo].[Revindex_Storefront_SalesOrder]
DELETE FROM [dbo].[Revindex_Storefront_WishList]
DELETE FROM [dbo].[Revindex_Storefront_TaxClass]
DELETE FROM [dbo].[Revindex_Storefront_TaxProvider]
DELETE FROM [dbo].[Revindex_Storefront_Seller]

```

2. Open a new query and execute the following SQL statement to disable all constraints at your target database.

**EXEC sp\_msforeachtable 'ALTER TABLE ? NOCHECK CONSTRAINT all'**

3. Right mouse on your source database and click **Tasks > Export Data**
4. Follow the wizard and select source database you are exporting the data from.
5. Select the target database you are exporting the data to.
6. Select "Copy data from one or more tables or views".
7. Select all these tables:

```

Revindex_Storefront_Category
Revindex_Storefront_CrosssellProduct
Revindex_Storefront_Distributor
Revindex_Storefront_Gallery
Revindex_Storefront_Manufacturer
Revindex_Storefront_ProductXXX (all ProductXXX tables except Revindex_Storefront_ProductReview)
Revindex_Storefront_RelatedProduct
Revindex_Storefront_RequiredProduct
Revindex_Storefront_RightDefinition
Revindex_Storefront_Seller
Revindex_Storefront_TaxClass
Revindex_Storefront_TaxProvider
Revindex_Storefront_VoucherDefinition

```

8. On each selected table, click on **Edit Mapping** and select the following:

- + **Enable identity insert**

- + **Append rows to the destination table**

- + Look for columns of type "timestamp" (e.g. RowVersion column) and set the Destination to **<ignore>**

**Note:** You can use the **CTRL** or **SHIFT** keyboard to select multiple tables and make edits to all of the selected tables at once.

9. Click **Finish**.
10. Open a new query and execute the following SQL statement to re-enable all constraints at your target database.

**EXEC sp\_msforeachtable 'ALTER TABLE ? CHECK CONSTRAINT all'**

11. Execute the following statement to check the database integrity at your target database. If any data integrity failures are reported, you should rollback to your backup database and retry.

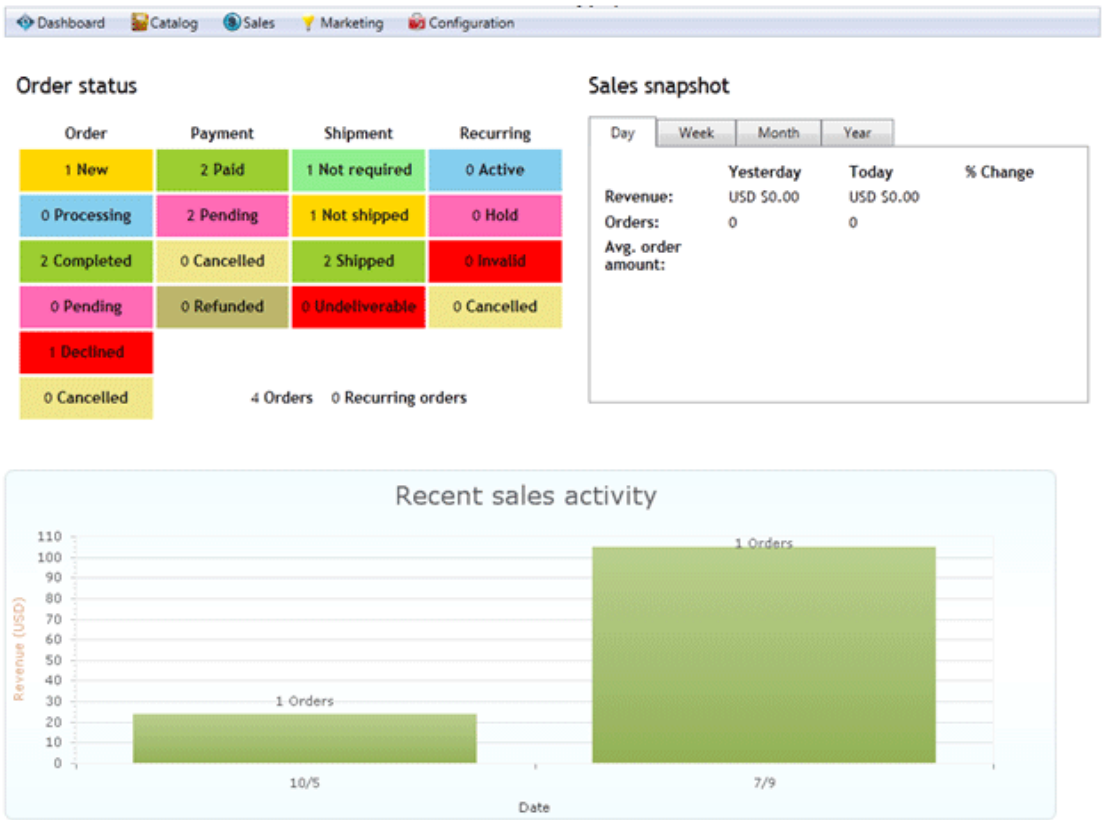
**DBCC CHECKCONSTRAINTS WITH ALL\_CONSTRAINTS**

12. Copy over all the files from your folder **\\DesktopModules\\Revindex.Dnn.RevindexStorefront\\Portals\\X** to the other server respectively where X is your portal number.
13. Test your data

If you're running tests on a development/staging machine with production data copied over and you sell recurring products, make sure to disable any recurring orders or change the payment gateway credentials, otherwise it will automatically charge your customer's credit card when the order is due for renewal.

# Administration

The administration section is used to configure your store, define the products you sell as well as manage orders. The **Storefront** page you created hosts the main **RevindexStorefront** administration module control where you can perform configuration changes, manage products and orders.





# Configuration















# General

Start by configuring your basic store information under **Configuration > General** such as your store name, email, address, units of measure, etc. This information will be used by various functions of your Storefront such as calculating shipping cost based on your store address or sending email receipt to the customer.

The Storefront comes with many advanced features that are disabled by default such as API, cross-sell, handling, packing, fraud score, address validation, etc. You may want to explore and enable some of these features once you have familiarized with the basic workings of the software.

### Advanced features

The Storefront has many powerful features to help you sell more, but are disabled by default. advanced features by enabling them in your store.

Address validation:		<input type="checkbox"/>
Analytics:		<input type="checkbox"/>
API:		<input type="checkbox"/>
Cart:		<input type="checkbox"/>
Cart summary:		<input type="checkbox"/>
Checkout:		<input type="checkbox"/>
Confirmation:		<input type="checkbox"/>
Cross-sell products:		<input type="checkbox"/>
Display template:		<input type="checkbox"/>
Distributor:		<input type="checkbox"/>
Fulfillment:		<input type="checkbox"/>
Handling:		<input type="checkbox"/>
Manufacturer:		<input type="checkbox"/>
Marketplace:		<input type="checkbox"/>

# Currencies

Revindex Storefront supports every known currency in the world. You can display prices and amounts in the currency of the user selected culture. For example, a customer viewing your site in English United States will see USD \$, whereas a customer from English Canada will see CAD \$, and a customer from France will see the Euro €, etc.. Currency conversion is performed using an exchange rate table from the **Configuration > Currencies** menu. If the exchange rate is not provided for a culture, the Storefront will automatically fall back to the primary currency.

It's important to note that the Storefront internally stores and calculates all the amounts in the primary currency. Actual money is also transacted with your payment gateway in the primary currency. Any non-primary currency is merely converted from the primary currency multiplied by its respective exchange rate for display on screen. Therefore, it's extremely important to ensure you pick the correct primary currency for your business from the start.

In reality, currency exchange rate varies throughout the day. The converted value displayed to the customer is only an approximation of the actual amount based on the exchange rate provided. In the case of credit card charges, the actual amount charged to the customer is based on the exchange rate charged by the bank at the moment of settlement and may be different than the exchange rate you provided in the table.

You can enable the **Auto update** feature to automatically update the exchange rates periodically using one of the supported currency providers (Yahoo Finance, European Central Bank, etc.). By default, the currency scheduler runs daily under the **Host > Schedule** page. Each provider may return a slightly different rate based on where they source and how frequently they update their own internal rates. Please verify if the selected provider supports your currency and the accuracy of the rate returned.

Customers can view the prices in their preferred currency through the Currency (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/currency/rvdwkpvm/section>) module or by switching the page language if no currency is specified.

# Payment

The Storefront supports many different payment methods such as cash, check, credit card, debit card, money order, PayPal and wire transfer payment methods. By default, most payment methods are disabled. Select the payment methods to allow from the **Configuration > Payment** menu. You must enable at least one payment method.

## None payment method

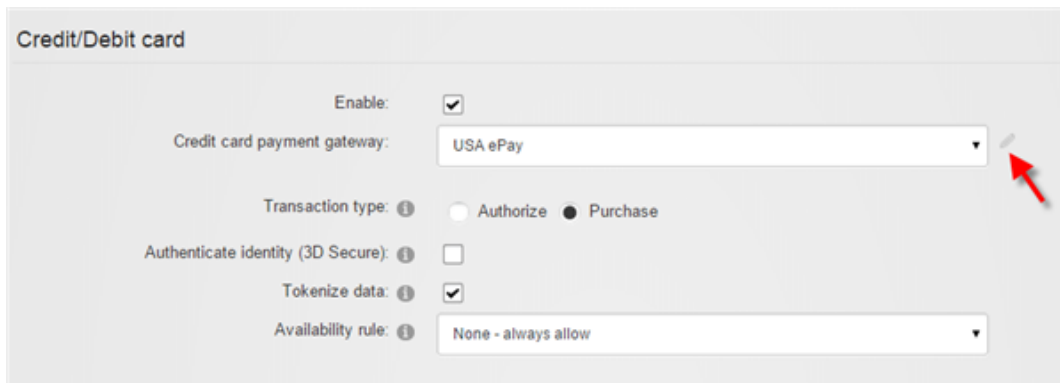
The **None** is a special payment method that allows a user to bypass payment and is useful for allowing a customer to checkout zero dollar amounts such as free trials. It should normally be used with an availability rule to allow it only when the balance amount due is zero.

## Credit card payment method

If you simply want to capture credit card information and perform manual transaction later (e.g. using a virtual terminal), set the **Credit card payment gateway** to **"Manual"**.


## Payment processor


If you're using a 3rd party payment processor, you also need to enter the credentials for the desired payment method. For example, if your credit card payment gateway is Authorize.NET, you need to set the Authorize.Net gateway credentials. Similarly, if you enable the PayPal payment method, you need to set the PayPal Express Checkout or PayPal Website Payments Standard credentials. Click on the edit icon to enter your payment gateway credentials. Please see Gateways (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-gateways/rvdwkpvm/section>) for more information.





**Credit/Debit card**


Enable: ☒

Credit card payment gateway: USA ePay 

Transaction type:  ☐ Authorize ☒ Purchase

Authenticate identity (3D Secure):  ☐

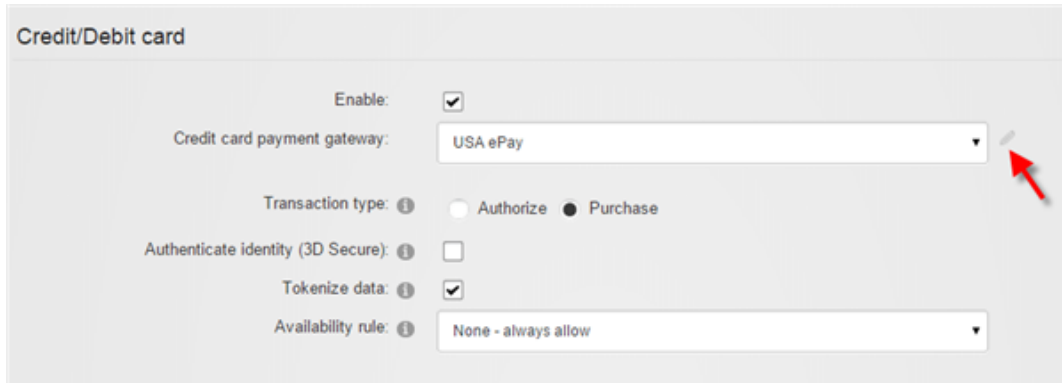
Tokenize data:  ☒

Availability rule:  None - always allow

## Gateways

In order to accept credit card and other advanced payment types like PayPal, you will need to open a merchant account with a payment gateway provider (Authorize.net, Elavon, PayPal, etc.). A payment gateway provides a secure connection to communicate payment information between the customer's financial account and your bank account.

You will need to enter the account credentials given by your payment gateway provider into the Storefront under **Configuration > Payment**. For the type of payment method (credit card, PayPal, etc.), click on the edit icon to enter your payment gateway credentials.



Credit/Debit card

Enable: ☒

Credit card payment gateway: USA ePay

Transaction type: ☐ Authorize ☒ Purchase

Authenticate identity (3D Secure): ☐

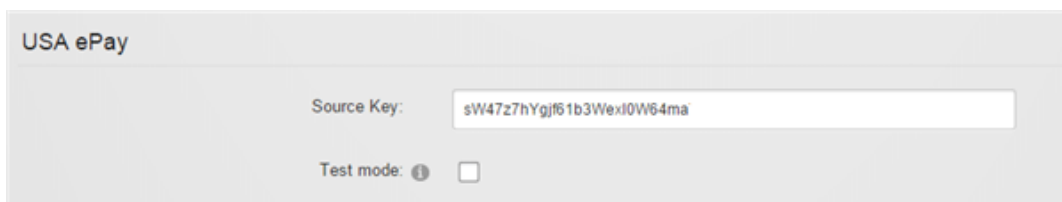
Tokenize data: ☒

Availability rule: None - always allow

## Test mode

Only enable **Test mode** if your gateway provided you with a separate test account. The test account is usually different from your production account. Under test mode, the system will attempt to transact with the gateway's sandbox server and results will often vary depending on the amount, credit card number and expiry being used in order to simulate different approval and denial errors. Please consult your payment gateway's technical documentation for running in test mode.

Instead, it is recommended that you perform your tests in production mode. Most payment gateways will waive the transaction fee if you refunded a transaction before the funds have settled. Please contact your payment gateway for more information.



USA ePay

Source Key: sW47z7hYgjf61b3Wexl0W64ma

Test mode: ☐

## Currency

Most payment gateways accept only a single currency (e.g. USD) and are usually predetermined in your merchant account during registration. If a payment gateway accepts multiple currencies, the Storefront will attempt to transmit your primary currency information to the payment gateway. Always ensure that your payment gateway can support your primary currency for your merchant account.

## Recurring payment

Automatic payment collection for a recurring order is supported for certain payment gateways (e.g. Authorize.Net AIM, Authorize.Net CIM, Paymentech, Elavon, PayPal Express Checkout, PayPal Website Payments Pro, Sage Pay Direct, etc.). Generally, you cannot automatically collect recurring payments where the checkout process requires manual intervention

from the customer such as paying by check, cash, money order, etc.. The recurring order will still get created and you can always collect the money separately by invoicing your customer or use the virtual terminal provided by your payment gateway. You may also use the virtual terminal of your payment gateway to schedule the recurring collection of payment outside of the Storefront, if available. Please see the information on individual payment gateways to determine if it supports recurring payments.

Please contact us if you don't see the payment gateway you like to use.

# Authorize.Net AIM

Authorize.Net (<http://reseller.authorize.net/application/?resellerId=28871>) Advanced Integration Method (AIM) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Login** – Your API Login that uniquely identifies your account.
2. **TranKey** – Your API transaction key.

Leave the **Gateway URL** blank unless if you're using a different payment gateway that is emulating Authorize.Net compatible API.

# Authorize.Net CIM

Authorize.Net (<http://reseller.authorize.net/application/?resellerId=28871>) Customer Information Manager (CIM) is a payment profile gateway that allows you to accept credit card transactions, bank payments, etc.. It uses a hosted payment page on Authorize.Net Web site for both one-time purchase and recurring payment (no credit card information passes through your site) thereby simplifying your PCI requirements.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- Purchase using gateway hosted page

The following fields are required:

1. **Login** – Your API Login that uniquely identifies your account.
2. **TranKey** – Your API transaction key.

Since Authorize.Net CIM uses pop-up to display payment profile, please ensure you also have enabled pop-up under your DNN **Admin > Site Settings** page.



# Authorize.Net SIM

Authorize.Net (<http://reseller.authorize.net/application/?resellerId=28871>) Simple Integration Method (SIM) is a payment wallet gateway that allows you to accept credit card transactions, bank payments, etc. using a hosted payment page on Authorize.Net Web site.

This gateway supports the following features:

- Purchase using gateway hosted page
- Payment notification

The following fields are required:

1. **Login** – Your API Login that uniquely identifies your account.
2. **TranKey** – Your API transaction key.
3. **Signature Key** - Your secret signature key value (<https://support.authorize.net/s/article/What-is-a-Signature-Key>) configured in your merchant account's security settings used to verify the response received from Authorize.Net.

Do not configure any Relay Response URLs in the merchant account settings otherwise the Storefront may not be able to complete the URL response relay needed to confirm payment.

Leave the **Gateway URL** blank unless if you're using a different payment gateway that is emulating Authorize.Net compatible API.

# Barclaycard DirectLink

Barclaycard (<https://www.barclaycard.co.uk/business/accepting-payments/payment-gateways>) DirectLink is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- 3D Secure

The following fields are required:

1. **PSPID** – Your merchant login ID.
2. **UserID** – Your API user ID.
3. **Password** - Your API password ID.
4. **SHA-IN** - The SHA512 encryption key.

Please note Barclaycard supports only GBP currency, therefore your Storefront currency must also be configured to use GBP as your primary currency.

Make sure that you are using SHA512 under **Configuration > Technical information > Global Security Parameters** in the Barclay's account settings.

Make sure that you enable the **"I would like to receive transaction feedback parameters on the redirection URLs"** and **"I would like Barclaycard to display a short text to the customer on the secure payment page if a redirection to my website is detected immediately after the payment process"** under **Configuration > Technical information > Transaction feedback** in the Barclay's account settings. Enter any value for the **SHA-OUT** if prompted.

If you encounter any permission errors, you may also need to enter your server IP address under the Barclay's merchant account (under **Configuration > Technical information > Data and origin verification > Checks for Barclaycard Direct Link**).

# BluePay

BluePay (<http://www.bluepay.com>) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Account ID** – Your API account.
2. **Secret Key**

# Cardstream Direct

Cardstream (<https://cardstream.com/>) Direct is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- Tokenization
- 3D Secure

The following fields are required:

1. **Merchant ID**
2. **Shared Key** - The SHA512 encryption key.

Please note Cardstream supports only GBP currency, therefore your Storefront currency must also be configured to use GBP as your primary currency.

# CashFlows Remote API

CashFlows (<http://www.cashflows.com>) Remote API is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Purchase
- Refund
- Recurring payment

The following fields are required:

1. **ProfileID** – Your API profile ID.
2. **Password** – Your API password.

Please contact Ben Nunn or Paul Osborne via email ([tech-support@cashflows.com](mailto:tech-support@cashflows.com)) or by phone (01223 550920) to verify your CashFlows account configuration. In particular, if you intend to accept recurring payments, please let them know the Storefront uses the "Alternative Recurring Payment Request parameters" to handle recurring transactions.

# Chase Paymentech Orbital Gateway

Chase Paymentech (<http://www.chasepaymentech.com>) Orbital Gateway is a direct payment gateway that allows you to accept credit card transactions within your site. Ensure that your merchant account is set up to use either the "Salem" or "Tampa" implementation.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Username** – The credentials for Chase Paymentech Orbital Gateway.
2. **Password**
3. **Merchant ID**
4. **Terminal ID** – For example "001".
5. **Bin** - Enter "000001" for Salem implementation or "000002" for Tampa implementation.

When running in "Salem" implementation, you're responsible for running your own offline end-of-day batch settlement. The Storefront does not perform any batch settlement.

To certify your merchant account for use with Revindex Storefront, please contact **Jason Kimbrell**, Director, Integrated Solutions - Research & Discovery at Chase Paymentech (Phone: 214.849.3634, Email: [Jason.Kimbrell@Chasepaymentech.com](mailto:Jason.Kimbrell@Chasepaymentech.com)).

# Corduro

Corduro (<http://www.corduro.com/>) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Void
- Recurring payment
- Tokenization

The following fields are required:

1. **PEM certificate**
2. **Client number**
3. **Username**
4. **Password**
5. **Process account number**

# CyberSource

CyberSource (<http://www.cybersource.com/>) SOAP is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Merchant ID**
2. **Transaction Key**

Please make sure you use the security keys provided under the SOAP Toolkit API.



# Dotpay

Dotpay (<http://www.dotpay.pl/en/>) is a Polish payment wallet gateway that allows you to accept a variety of payments (credit card, bank transfer, debit, etc.) through the hosted page on Dotpay Web site.

This gateway supports the following features:

- Purchase using gateway hosted page
- Payment notification

The following fields are required:

1. **Account ID**
2. **Pin**

You also need to configure your Dotpay account under **Settings > URLC parameters** to set the option to "Permit to receive URLC parameter from external services" in order for the payment notification to work.

# Elavon Virtual Merchant

Elavon (<http://www.elavon.com>) Virtual Merchant is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Account ID** – Also known as your account's Merchant ID.
2. **User ID**
3. **Pin** – This number is generated within Virtual Merchant admin page.

Elavon Virtual Merchant allows you to customize the required and non-required fields from Elavon's **Terminal > Merchant > Payment fields** page. It is, however, recommended that you keep the required fields to a minimal.

# eProcessing Network

eProcessing Network (<http://www.eprocessingnetwork.com>) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Account number**
2. **Restrict key**

You must also enable Authorize.Net gateway on your account to use eProcessing Network.

# eWay Direct Payment Australia

eWay Direct Payment (<http://www.eway.com.au>) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Customer ID** - Your API Customer ID is not your merchant number.
2. **Refund password** - Password required and must be enabled if you intend to perform refund through the Storefront.

# FirstData Global Gateway Web Service

FirstData Global Gateway (<http://www.firstdata.com>), also known as LinkPoint, Web Service is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **User** – Your API username and is different from your account username. The user is contained in the WS<StoreID>.\_.1.auth.txt file.
2. **Password** – Your API password and is different from your account password. The password is contained in the WS<StoreID>.\_.1.auth.txt file.
3. **PEM Certificate** – Open the PEM certificate (WS<StoreID>.\_.1.pem file) using Notepad. Copy the entire content into this field including the BEGIN CERTIFICATE header and END CERTIFICATE footer.

Login to your virtual terminal (<https://secure.linkpt.net/lpc/servlet/LPCLogin> (<https://secure.linkpt.net/lpc/servlet/LPCLogin>)) and download the certificate under **Support > Download Center** menu. Enter your **Tax ID** and click **Download** for Web service. Extract the zip file.

You will also need to install the PKCS #12 certificate (WS<StoreID>.\_.1.p12 file) contained in the same archive if your server is unable to connect to FirstData or you receive the error "Could not create SSL/TLS secure channel".

1. Run the Windows **MMC** console from the command prompt.
2. Click on **File > Add/Remove Snap-In** to add the **Certificates** object.
3. Choose **Computer account**, followed by **Local Computer** when prompted.
4. Expand the **Certificates (Local Computer)** node. The client certificate will be installed in the **Personal** folder. Right click the **Personal** folder, select **All Tasks**, and click **Import**.
5. Follow the wizard to import the p12 file. The password is contained in the WS<StoreID>.\_.1.p12.pw.txt file you received in your archive.
6. Grant the IIS application pool user access to the newly imported certificate. From the console, right mouse on the certificate you just imported and click on **All Tasks > Manage Private Keys**. Click **Add** and then enter the username of the IIS application pool user (e.g. IIS App Pool\DefaultAppPool) and click **OK**. Make sure to grant that user **Full Control**

permission.

Alternatively, you can also grant permission using the **WinHttpCertCfg** tool from Microsoft (<http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=19801>). Run the following command to grant access to the IIS user where <StoreID> is your Store ID and AppPoolUser is your IIS Application Pool user.

```
Winhttpcertcfg -g -c LOCAL_MACHINE\My -s WS<StoreID>._.1 -a AppPoolUser
```

# FTNI

FTNI (<http://www.ftni.com/>) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- Tokenization

The following fields are required:

1. **Username** - Your API username.
2. **Password**

# FTNI ACH

FTNI (<http://www.ftni.com/>) ACH is a direct payment gateway that allows you to accept ACH/eChecks transactions within your site.

This gateway supports the following features:

- Invoice
- Refund

The following fields are required:

1. **Username** - Your API username.
2. **Password**



# InternetSecure

InternetSecure (<http://internetsecure.com/>) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Gateway ID**

You must contact InternetSecure to enable online refund and authorization operations in your account if you intend to use these features.

# Intuit QuickBooks Merchant Service

Intuit QuickBooks Merchant Service (<http://payments.intuit.com/products/internet-merchant-accounts.jsp>) (QBMS) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

Follow the steps below to obtain the information needed by the payment gateway.

1. You first need to register with <https://developer.intuit.com> (<https://developer.intuit.com/>) (previously <http://appreg.intuit.com> (<http://appreg.intuit.com>)) and login to the site.
2. Create a new app and choose either "Select API" or "QBMS Payments App".
3. Under "Legacy QBMS Payments App" and click on the **Create a QBMS payments app**. Set the following information:
  - **Application type** - Choose Desktop
  - **Environment** - Choose Production
  - **Application Name** - Give the name of your application
  - **Application Identifier** - Give a unique name without spaces
  - **Domain name** - Enter any domain name (e.g. [mysite.com](http://mysite.com))
4. If you receive a verification email, make sure to click on the verification link that you received in your email and enter the verification code to confirm your new application. You may skip this step if you don't receive an email.
5. Once verified, take note of your **AppID** and **AppLogin** information.
6. Go to the following URL to obtain your connection ticket where **<AppID>** should be replaced with your application ID that you created. Choose the production URL if you created a production environment.

## Production:

<https://merchantaccount.quickbooks.com/j/sdkconnection?appid=<AppID>&sessionEnabled=true>

## Test mode:

<https://merchantaccount.ptc.quickbooks.com/j/sdkconnection?appid=<AppID>&sessionEnabled=false>

7. Login to the page with your merchant email and password.

8. Click on the **Create connection** button if you're not already presented with the connection ticket screen.

9. Copy the connection ticket info.

Once you have verified your application, you will be able to collect the following information that will be required to configure your payment gateway in the Storefront:

1. **App ID**

2. **App Login**

3. **Connection Ticket**

Please ensure you have disabled the **Login Security** option on your Intuit account as described here

(<https://help.chargeover.com/article/show/14748-fixing-the-2020-session-authentication-required-error-with-intuit-merchant-services>) if you encounter any session authentication error.

# MasterCard Internet Gateway Service Hosted

MasterCard Internet Gateway Service (<https://www.mastercardpaymentgateway.com>) 3-Party Virtual Payment Client, also known as MIGS VPC and ANZ eGate, is a payment wallet gateway that allows you to accept credit card payments through the hosted page on MasterCard Web site. MIGS is used by many banks including ANZ, Bendigo, Commonwealth, Mauritius Commercial Bank, etc.

This gateway supports the following features:

- Purchase using gateway hosted page

The following fields are required:

1. **Merchant ID**
2. **Access Code**
3. **Secure Hash Secret**

# Merchant e-Solutions

Merchant e-Solutions (<http://www.merchante-solutions.com>) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Profile ID**
2. **Profile Key**

# Mollie

Mollie (<https://www.mollie.com>) is a popular payment wallet gateway in Europe that allows you to accept a variety of payments through the hosted page on Mollie Web site.

This gateway supports the following features:

- Purchase using gateway hosted page
- Payment notification
- Recurring payment

The following fields are required:

1. **API Key**

Please ensure your primary currency is configured for EURO.

# Moneris eSelectPlus Canada

Moneris eSelectPlus (<http://www.eselectplus.ca>) is a Canadian direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Store ID**
2. **API Token**

# NMI

NMI (Network Merchants LLC) (<https://www.nmi.com/>) is a payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- Tokenization
- 3D Secure

The following fields are required:

1. **Key ID** - Only required if 3D Secure is enabled.
2. **Key** - Only required if 3D Secure is enabled.
3. **Username** - Ensure the account has access to perform auth, sale, capture, void, refund.
4. **Password**
5. **Gateway URL** - NMI provides white label payment processing for many other payment gateways. If you're using a gateway that is utilizing NMI beneath the cover, you simply need to enter the appropriate Gateway URL. Otherwise, you can ignore this field.



# PayFast Website Payment

PayFast (<http://www.payfast.co.za>) Website Payment is a payment wallet gateway that allows you to accept a variety of payments (credit card, voucher, etc.) through the hosted page on PayFast Web site.

This gateway supports the following features:

- Purchase using gateway hosted page
- Payment notification

The following fields are required:

1. **Merchant ID**
2. **Merchant Key**
3. **PDT Key** - PDT allows the Storefront to validate the transaction was successful after redirecting the customer to PayFast Web site. if you enabled PDT on your PayFast account, you need to enter the PDT key. If you leave it empty, the Storefront will rely solely on the ITN notification from PayFast.

# Payment Express PxPay

Payment Express (<https://paymentexpress.com/>) PxPay is a payment wallet gateway that allows you to accept credit card transactions using a hosted payment page on Payment Express Web site.

This gateway supports the following features:

- Purchase using gateway hosted page

The following fields are required:

1. **PxPost UserID**
2. **PxPost Key**

The checkout flow is only completed when the customer is redirected back to your site. Therefore, it is recommended to disable the Results Page under your PxPay's merchant account settings to redirect the customer immediately back to your site.

# Payment Express PxPost

Payment Express (<https://paymentexpress.com/>) PxPost is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **PxPost Username**
2. **PxPost Password**

# PayPal Express Checkout

PayPal (<http://www.paypal.com>) Express Checkout is a payment wallet gateway that allows you to accept PayPal transactions using a hosted page on PayPal Web site.

This gateway supports the following features:

- Purchase using gateway hosted page
- Recurring payment

The following fields are required:

1. **Username** – Your API username and is different from your account username.
2. **Password** – Your API password and is different from your account password.
3. **Signature**

To obtain the API credentials, you need to have a personal or business account with PayPal. Follow the steps below to obtain your credentials.

1. Login to PayPal Web site and go to your **Account Settings**.
2. Click on **Update** for the "API Access" section.
3. Under the "NVP/SOAP API integration" section, click on **Manage API credentials**.
4. Copy the API credentials (**API Username**, **API Password** and **Signature**) information.

For recurring payment, you will need to contact PayPal to enable "Reference Transactions" in your account first.

If you are using a URL rewriter, please ensure that it is not rewriting your checkout's page URL to lowercase as PayPal will redirect back to your site passing a security token that needs to be in mixed-case.

# PayPal Payment Gateway

PayPal (<http://www.paypal.com>) Payment Gateway (formerly Payflow Pro and can be used with PayPal Payments Pro) is a direct payment gateway that allows you to accept credit card transactions within your site by interfacing with other major merchant providers.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **User** – If you set up one or more additional users on the account, this value is the ID of the user authorized to process transactions. If, however, you have not set up additional users on the account, User has the same value as Vendor.
2. **Vendor** - Your merchant login ID that you created when you registered for the account.
3. **Partner** - The ID provided to you by the authorized PayPal Reseller who registered you for the Payflow SDK. If you purchased your account directly from PayPal, use "PayPal".
4. **Password** – The password that you defined while registering for the account.

To obtain a Payflow Pro account, you must already have a merchant account with one of their compatible merchant providers or using PayPal Payments Pro. If you don't have a merchant account, you can obtain both the merchant account and Payflow Pro by contacting Revindex. You can also sign up for Payflow Pro directly from <https://manager.paypal.com> (<https://manager.paypal.com>)

# PayPal Payments Standard

PayPal (<http://www.paypal.com/>) Payments Standard is a payment wallet gateway that allows you to accept PayPal and credit card transactions using a hosted page on PayPal Web site. Customers will be redirected temporarily to the hosted payment page to complete the checkout process.

This gateway supports the following features:

- Purchase using gateway hosted page
- Payment notification

The following fields are required:

1. **Email** – Your PayPal registered email account.
2. **Username** – Your API username and is different from your account username.
3. **Password** – Your API password and is different from your account password.
4. **Signature**

To obtain the API credentials, you need to have a personal or business account with PayPal. Follow the steps below to obtain your credentials.

1. Login to PayPal Web site and go to your **Account Settings**.
2. Click on **Update** for the "API Access" section.
3. Under the "NVP/SOAP API integration" section, click on **Manage API credentials**.
4. Copy the API credentials (**API Username**, **API Password** and **Signature**) information.

Checkout using PayPal Website Payments Standard relies on the Web browser redirection to a PayPal hosted payment page and therefore, you need to configure the return URL to ensure the customer is safely redirected back to your site after completing their payment on PayPal. To configure the return URL, login to PayPal Web site and go to **Profile**. Then go to **Website payment preferences**. Enable **Auto Return** and simply set the **Return URL** field to your Web site's root address (e.g. <http://www.example.com> (<http://www.example.com>)). The Storefront will automatically set the complete notification URL via the PayPal API behind the scene.

Revindex Storefront supports Instant Payment Notification (IPN) with PayPal Website Payments Standard. IPN allows a checkout to complete without the customer needing to redirect back to your site after paying on PayPal.com site. There is nothing to configure but if your PayPal account is set to block payments for non-confirmed addresses, IPN may not work correctly. To allow payments from non-confirmed addresses, go to your PayPal account under **Profile > Payment Receiving Preferences** and select "No" for the **Block payments from U.S. users who do not provide a Confirmed Address** setting.

# PayPal Website Payments Pro

PayPal (<http://www.paypal.com/>) Website Payments Pro is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Username** – Your API username and is different from your account username.
2. **Password** – Your API password and is different from your account password.
3. **Signature**

To obtain the API credentials, you need to have a business account with PayPal. Login to PayPal Web site and go to **Profile**. Then go to **API Access** and followed by **Request API Credentials**. Select **Request API signature** and agree to the terms. Copy the API credentials (**API Username**, **API Password** and **Signature**) information.

# Paystation 3-Party

Paystation (<http://www.paystation.co.nz/>) 3-Party is a payment wallet gateway that allows you to accept a variety of payments (credit card, etc.) through the hosted page on Paystation Web site.

This gateway supports the following features:

- Purchase using gateway hosted page

The following fields are required:

1. **Paystation ID**
2. **Gateway ID**

You also need to provide the return URL to your Paystation by contacting [info@paystation.co.nz](mailto:info@paystation.co.nz). The return URL should be the URL that should redirect the customer back on success. For DotNetNuke system, please specify the return URL as your primary page (e.g. <http://domain.com/Default.aspx>)



# PayTrace

Pay Trace (<http://www.paytrace.com>) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Username**
2. **Password**

# PayU Business

PayU (<https://www.payu.co.za/>) Business is a payment wallet that allows you to accept credit card, bank payments and other forms of payments using a hosted payment page on PayU Web site.

This gateway supports the following features:

- Purchase using gateway hosted page
- Payment notification

The following fields are required:

1. **API Username**
2. **API Password**
3. **API Safekey**
4. **Payment methods** - The list of available payment methods for your account (separate each value by a comma). See list of valid values here (<http://help.payu.co.za/display/developers/Supported+payment+methods>). E.g. "CREDITCARD, MASTERPASS".

Primary currency must be ZAR (South Africa).

# PayU Enterprise

PayU (<https://www.payu.co.za/>) Enterprise is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment (not available if 3D Secure is enabled in your account).

The following fields are required:

1. **API Username**
2. **API Password**
3. **API Safekey**

# Peach Payments

Peach Payments (<http://peachpayments.com/>) XML Integrator is a payment profile gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- Tokenization
- 3D Secure

The following fields are required:

1. **Sender**
2. **Login**
3. **Password**
4. **Registration channel** - This channel should have 3D Secure enabled.
5. **Payment channel** - This channel should have 3D Secure disabled.

The Registration channel is used for the initial transaction and the Payment channel is used for subsequent recurring debits. You need to make sure to enter the channel with 3D Secure enabled in the Registration field and the recurring enabled channel in the Payment field. You must ensure you have this setting setup correctly.

# Princeton CardConnect

Princeton Payment Solutions (<http://www.prinpay.com>) CardConnect is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Merchant ID**
2. **Username**
3. **Password**
4. **Web service URL** - The SOAP Web service URL gateway. For example, the production Web service URL may look like <https://demo.prinpay.com:8443/cardconnect/CCWSv1> and for testing with the sandbox, the Web service URL would look like <https://demo.prinpay.com:6443/cardconnect/CCWSv1>

You may also need to provide your server's IP address to Princeton Payment Solutions in order for them to authorize your server to call their API service.

# PSiGate XML Messenger

PSiGate (<http://www.psigate.com>) is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. **Store ID**
2. **Passphrase**

# Sage Pay Direct

Sage Pay (<https://applications.sagepay.com/apply/CBA37350-B26B-0EFE-0FE4-FA1A470A72DB>), formerly known as ProtX, Direct is a direct payment gateway in the U.K that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- 3D Secure

The following fields are required:

1. Register your server's IP address with Sage Pay.
2. Ensure your Sage Pay currency setting supports your Storefront's primary currency.
3. **Vendor name** – Your registered vendor name with Sage Pay.

Please contact Sage Pay to enable Payment, Deferred, Release, Abort and Refund transactions types. Certain operations may not work if the transaction types are not enabled.

In order to obtain permission to transact in production mode, Sage Pay requires that you perform a series of purchases and refunds starting with the simulator account (enable

**Simulation mode** only). Once successful, you need to contact Sage Pay to obtain a test account (enable **Test mode** only).

The valid simulator and test credit card numbers are located at

[http://www.sagepay.com/help/faq/how\\_can\\_i\\_test\\_the\\_different\\_card\\_types](http://www.sagepay.com/help/faq/how_can_i_test_the_different_card_types)

([http://www.sagepay.com/help/faq/how\\_can\\_i\\_test\\_the\\_different\\_card\\_types](http://www.sagepay.com/help/faq/how_can_i_test_the_different_card_types)). Once the tests are successfully completed, contact Sage Pay to provide you with the production accounts needed for your business.

# Sage Pay Form

Sage Pay (<https://applications.sagepay.com/apply/CBA37350-B26B-0EFE-0FE4-FA1A470A72DB>) Form is a payment wallet gateway in the U.K that allows you to accept a variety of payment methods using Sage Pay's hosted payment page.

This gateway supports the following features:

- Purchase using gateway hosted page

The following fields are required:

- **Vendor name**
- **Encryption password**

Your site must enable human friendly URL format because Sage Pay Form is unable to correctly handle URLs that contain URL reserved characters.



# Sage Payments Direct

Sage Payments (<https://www.sage.com/en-us/payment-processing/>) Direct is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- Tokenization

The following fields are required:

1. Merchant ID
2. Merchant Key

# Stripe

Stripe (<https://stripe.com>) is a payment gateway that allows you to accept credit card transactions within your site. This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- Tokenization
- 3D Secure

The following fields are required:

1. **Secret Key**
2. **Publishable Key**

For older Storefront version (prior to v14), you must manually enable "**Process payments unsafely**" from the Stripe dashboard (<https://dashboard.stripe.com/account/integration/settings>). From the dashboard, click on "Show Advanced Options" then "Integration" and enable "Process payments unsafely."

# Suomen Verkkomaksut

Suomen Verkkomaksut (<http://www.verkkomaksut.fi>) is a payment wallet gateway allows you to accept a variety of payments (credit card, bank transfer, debit, etc.) through the hosted page on Verkkomaksut Web site.

This gateway supports the following features:

- Purchase using gateway hosted page
- Payment notification

The following fields are required:

1. **Merchant ID**
2. **Secret Code**

Only the Euro currency is accepted for Finnish banks, otherwise the payment will not be accepted.

# Total Apps

TotalApps (<https://total-apps.com/>) Direct Post is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- Tokenization

The following fields are required:

1. **Username** - Your API username.
2. **Password**

# Towah

Towah (<http://www.towahgroup.com>) is a payment wallet gateway that allows you to accept a variety of payments (credit card, bank transfer, debit, etc.) through the hosted page on Towah Web site.

This gateway supports the following features:

- Purchase using gateway hosted page
- Payment notification

The following fields are required:

1. **Merchant ID**
2. **Secret Key**

You also need to notify your account manager the location of your instant payment notification handler using the URL address format below where **<Site>** is your domain name and **<Number>** is the DotNetNuke's assigned portal number usually "0" if you only have a single portal.

`http://<Site>/DesktopModules/Revindex.Dnn.RevindexStorefront/PaymentNotificationHandler.ashx?portalid=<Number>&rvdsfpaygw=Towah`

# USA ePay

USA ePay (<http://www.usaepay.com>) is a direct payment gateway allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. Register your server's IP address with USA ePay.
2. **Source key**

# Virtual Card Services Pay

Virtual Card Services (VCS) (<http://www.vcs.co.za>) Pay is a payment profile gateway that allows you to accept credit card through the hosted page on VCS Web site.

This gateway supports the following features:

- Purchase
- Purchase using gateway hosted page
- Payment notification
- Recurring payment

The following fields are required:

1. **Terminal ID**
2. **MD5 Key**
3. **Username**
4. **Password**

From your VCS virtual terminal, you need to configure under the Merchant Administration section:

- Do Auth Callback: Yes
- Set the Approved Callback URL & Declined Callback URL: The location of your instant payment notification handler using the URL address format below where **<Site>** is your domain name and **<Number>** is the site's assigned portal number usually "0" if you only have a single portal.

`http://<Site>/DesktopModules/Revindex.Dnn.RevindexStorefront/PaymentNotificationHandler.ashx?portalid=<Number>&rvdsfpaygw=VirtualCardServicesPay`

- Callback Method: POST
- Response Format: Name Value Pairs

You also need to send a secret passphrase (your MD5 Key) to [support@vcs.co.za](mailto:support@vcs.co.za) to activate the security hash check and request enable live operation for your account.

# WorldPay Corporate XML Direct

WorldPay (<http://www.worldpay.com>) Corporate XML Direct is a direct payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment

The following fields are required:

1. Register your server's IP address with WorldPay.
2. **MerchantCode**
3. **XML Password** - Your API password and is different from your account password.

WorldPay by default automatically captures an authorized transaction. If you don't want to automatically capture the funds after authorization, you need to configure the **Capture Delay** settings from their administration panel.

Any order modification such as capture, refund or void transactions are performed offline by WorldPay even when the Storefront receives a successful acknowledgement. You are therefore responsible to verify that the order modifications are eventually applied by WorldPay.



# Zooz

Zooz (<http://www.zooz.com/>) is a payment gateway that allows you to accept credit card transactions within your site.

This gateway supports the following features:

- Authorize
- Capture
- Purchase
- Refund
- Void
- Recurring payment
- Tokenization
- 3D Secure

The following fields are required:

1. **Unique ID**
2. **App key**

3D Secure only works with authorize transactions. For recurring billing, you must request [support@zooz.com](mailto:support@zooz.com) (mailto:support@zooz.com) with the name of your app to allow your account to work with transactions without CVV after the first transaction.

## Custom gateway

You can easily integrate your own custom payment gateway by emulating the API of another supported gateway. For example, you can expose the same transaction services (Authorize, Purchase, Capture, Void, Refund, etc.) from Authorize.net AIM developer guide ([http://www.authorize.net/content/dam/authorize/documents/AIM\\_guide.pdf](http://www.authorize.net/content/dam/authorize/documents/AIM_guide.pdf)) and configure the Storefront to direct all calls to your gateway URL. The Storefront will process all payment transactions through your custom gateway. Your system will simply re-format the data and call your own custom payment gateway.

The Storefront currently supports a limited number of emulation endpoints from well known gateways like Authorize.net AIM, Authorize.net SIM, NMI, Princeton Card Connect. Please consult the API documentation of individual gateway for integration details.

Please contact us if you don't see the payment gateway you like to use.

## How to offer free products without payment

There are times when a business gives away free products or the checkout has a total amount of zero dollars after giving away discounts, coupons, etc. and you don't want to ask the customer's payment information (e.g. credit card number) to increase registration and checkout conversion.

You can do so by enabling the special **None** payment method from **Configuration > Payment methods** menu. The **None** payment method will bypass taking payment and allows the checkout to complete successfully. However, you want to make sure to allow this payment method only if the conditions are met (zero amount) and not accidentally bypass payment for a valid paying order.

To do so, you need to set the **Availability rule** for the **None** payment method so that it only becomes available when the minimum and maximum amount or balance is **exactly zero**.

Likewise, you may want to do the reverse for the other payment methods (credit card, etc.) and set the **Availability rule** to allow only when the minimum amount or balance is **greater than zero**. This may or may not be the case for your business because you may want to give a free recurring product on the first month but you also want to offer the customer to the opportunity to enter their credit card information for taking next payments (first month free, and \$20 thereafter charged to the credit card).

## How to avoid duplicate order number error

If you have historical payment transactions perhaps from a previous shopping cart and you're now in the process of configuring the Storefront, you may not be able to process new payment transactions because your payment processor forbids duplicate order numbers in their system. You may encounter error messages such as "The transaction was not sent to the host because of a duplicate order id". The error occurs simply because you have already submitted a previous order with the same order number in the past. For security reasons, certain payment processors will simply reject the new transaction.

In this case, you may want to jump start the next order number sequence. To do so, you must first enable the **Sales order** feature under **Configuration > General**. Once enabled, you can head over to **Configuration > Sales order** screen and change the **Next sales order number sequence** number. Please note, once you increased the number, you cannot decrease it so please choose an appropriate start number carefully.

# Taxes

Revindex Storefront supports almost every tax rule possible (e.g. collect percent tax rate based on country, state, postal code, quantity, product type, VAT, etc.). You can define individual tax classes from the **Configuration > Taxes** menu.

Click **Add New** then provide a name (e.g. "Goods") and choose a tax rule. Once the tax method has been added, you'll be able to assign any taxable products to the new tax method (e.g. Clothing products can be assigned to the "Goods" tax method, while shipping can be assigned to the "Services" tax method and taxed at a different rate).

Name	Select	Delete
EU VAT	Select	Delete
Flat rate	Select	Delete
Goods	Select	Delete
Shipping	Select	Delete

[Add new](#)

**General** **Rate**

Rate rule: Europe VAT - follow EU regulations

Tax rate (%): 2.0000

[Save](#)

Where it makes sense, you can enter up to 5 tax amounts in one tax calculation allowing you to break down and charge different tax rates by country, state, county, city and municipal level if needed for bookkeeping to comply with tax regulations. The sum of the individual tax amounts is what the customer will pay in taxes. If you don't care about tax levels, you can simply put your entire tax amount in the first level 1. If you intend to track and report the different levels of taxation, we suggest you follow the proposed ordering for consistency:

- Tax amount 1 = Country
- Tax amount 2 = State
- Tax amount 3 = County
- Tax amount 4 = City
- Tax amount 5 = Municipal or any special jurisdiction

The custom tax formula can also use powerful XSL transform. The Storefront comes with several pre-defined tax calculation templates (e.g. flat rate tax, percent tax on the item amount and vary by country and state, etc.). In most cases, you can simply modify the numeric values without knowing XSL. If you have highly complex tax requirements, you can employ full XSL syntax to output the tax calculation. To learn more about XSL, please see the **XSL Transform** section.

Tax formula is calculated individually against each sales order detail that has a product assigned to this tax class. When your formula is being calculated, the current sales order detail is available in the "in/this/salesOrderDetail" node.



## Tax providers


If you decide to use a tax provider (Avalara, Zip2Tax, etc.) to automatically calculate your taxes, you need to configure the credentials needed for the Storefront to communicate with the 3rd party provider. Click on the edit icon to enter your provider credentials. Please see Providers (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/tax-providers/rvdwkpvm/section>) for more information.

**Tax method:**

General Rate Exemption

Type: ⓘ AvaTax ⌵

This tax method uses the integrated tax rule. Please click the edit icon to configure your provider.



## Providers

Revindex Storefront supports integrated tax providers (e.g. Avalara, Zip2Tax) and will automatically calculate the tax charge in real-time on checkout. Under **Configuration > Taxes**, select the type (Avalara, Zip2Tax, etc.) and then click on the edit icon to enter the account credentials.

Please contact us if you don't see the tax provider you like to use.

# Avalara



Avalara (<http://www.avalara.com/>) AvaTax provides real-time tax rates for U.S and international addresses. The following fields are required:

1. **Account number**
2. **License key**
3. **Company code**

To ensure complete accuracy in tax calculation, we recommend that all your configured tax methods are set to use AvaTax exclusively and you're not mixing between custom rules and other tax providers.

Under **Configuration > Taxes** menu, click **Add new** to create a new tax method and select "AvaTax" as your tax type. Give it a name (e.g. "Products"). If you need to define a special tax category (e.g. you need to tax differently for shipping), you can enter a Avalara tax code otherwise leave the tax code empty and click **Save**.

Ensure you have created your organization and selected your Nexus jurisdiction in your Avalara administration settings first. Click on the edit icon to enter your Avalara credentials.

This is a screenshot of a web interface for configuring a tax method. At the top, there's a header 'Tax method:' with three tabs: 'General', 'Rate', and 'Exemption'. Below the tabs, there's a 'Type:' label followed by a dropdown menu currently showing 'AvaTax'. To the right of the dropdown is a small edit icon (a pencil). Below this, a blue informational box contains the text: 'This tax method uses the integrated tax rule. Please click the edit icon to configure your provider.' A red arrow points from the bottom right towards the edit icon.

Click on **Test connection** to make sure your credentials work. Then **Save**.

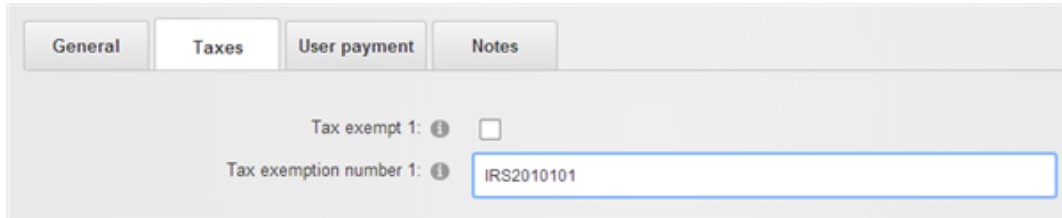
This is a screenshot of a web interface for configuring tax gateways. The title is 'Tax gateways' and the sub-header is 'Avalara'. Below this, there are four input fields: 'Account number:' with a masked value '#####', 'License key:' with a masked value '#####', 'Company code:' with the value 'AAA|', and 'Gateway URL:' with an information icon and an empty field. At the bottom, there's a 'Test mode:' label with a checked checkbox and a 'Test connection' button.



Please note you can define as many different tax methods as needed. Any of your product variants, handling or shipping can now associate to these tax methods and will be treated as taxable.

## Tax exemption

A customer may be exempt from taxes if they have a valid tax exemption number. You can enter the tax exemption number for a customer under the **People > Customers** menu.



The image shows a screenshot of a software interface with a tabbed menu at the top containing 'General', 'Taxes', 'User payment', and 'Notes'. The 'Taxes' tab is selected. Below the tabs, there are two fields. The first field is labeled 'Tax exempt 1:' followed by an information icon and an unchecked checkbox. The second field is labeled 'Tax exemption number 1:' followed by an information icon and a text input box containing the value 'IRS2010101'.

General	Taxes	User payment	Notes
<p>Tax exempt 1: ⓘ <input type="checkbox"/></p> <p>Tax exemption number 1: ⓘ <input type="text" value="IRS2010101"/></p>			

# TaxJar

TaxJar (<https://taxjar.grsm.io/Revindex>) provides real-time tax rates for U.S and international addresses. The following fields are required:

## 1. Token

To ensure complete accuracy in tax calculation, we recommend that all your configured tax methods are set to use TaxJar exclusively and you're not mixing between custom rules and other tax providers.

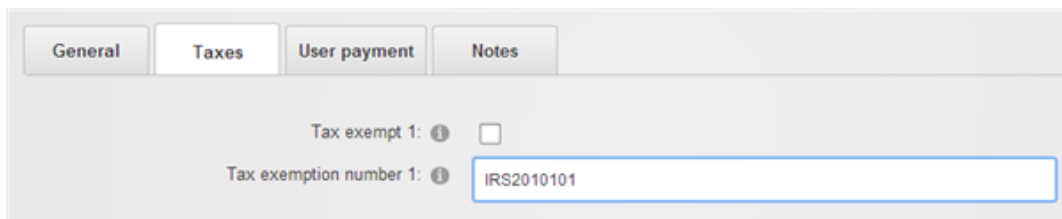
Under **Configuration > Taxes** menu, click **Add new** to create a new tax method and select "TaxJar" as your tax type. Give it a name (e.g. "Products"). If you need to define a special tax category (e.g. you need to tax differently for shipping), you can enter a TaxJar tax code otherwise leave the tax code empty and click **Save**.

Click on **Test connection** to make sure your credentials work. Then **Save**.

Please note you can define as many different tax methods as needed. Any of your product variants, handling or shipping can now associate to these tax methods and will be treated as taxable.

## Tax exemption

A customer may be exempt from taxes if they have a valid tax exemption number. You can enter the tax exemption number for a customer under the **People > Customers** menu.



The screenshot shows a form with four tabs: General, Taxes, User payment, and Notes. The Taxes tab is selected. Below the tabs, there are two fields: "Tax exempt 1:" with an information icon and a checkbox, and "Tax exemption number 1:" with an information icon and a text input field containing the value "IRS2010101".

# Zip2Tax

Zip2Tax (<http://www.zip2tax.com/>) database interface provides real-time tax rates for U.S and Canada addresses. The following fields are required:

1. **Username**
2. **Password**

# How to use a tax table

Using the custom tax rule, you can calculate tax rate from a tax table. The tax table can be in CSV or any format you choose. The advantage of using a tax table is it makes editing tax rates quick and easy.

The following example shows how to calculate the rate by using a sample CSV tax table from Zip2Tax ([http://www.zip2tax.com/Website/pagesProducts/z2t\\_table\\_formats.asp](http://www.zip2tax.com/Website/pagesProducts/z2t_table_formats.asp)). You can download a sample use table here ([http://www.zip2tax.com/Website/Downloads/Sample\\_Tables/zip2tax\\_Use\\_Sample.csv](http://www.zip2tax.com/Website/Downloads/Sample_Tables/zip2tax_Use_Sample.csv)).

1. Upload the CSV to a public location on your site or external. Take note of the URL.
2. Under **Configuration > Taxes**, add a new tax method. Give it a name like "Tax table".
3. Under the Rate tab, choose **Custom Rate** type and **Custom Rule**.
4. Paste the following XSL rule in the source view.

```
1
2 <xsl:transform xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="2.0">
3   <xsl:template match="/">
4     <!-- The following parser assumes the Zip2Tax csv file format with header on the first row. It
5     will parse the csv file into xml that we can use to query -->
6     <xsl:variable name="table" select="unparsed-
7     text('http://www.zip2tax.com/Website/Downloads/Sample_Tables/zip2tax_Use_Sample.csv')"/>
8     <xsl:variable name="rows" select="tokenize($table, '\r?\n')"/>
9     <xsl:variable name="data">
10       <!-- Loop through each row skipping the first header record -->
11       <xsl:for-each select="subsequence($rows, 2)">
12         <tax>
13           <xsl:for-each select="tokenize(., ',')">
14             <xsl:element name="col{position()}">
15               <xsl:value-of select="."/>
16             </xsl:element>
17           </xsl:for-each>
18         </tax>
19       </xsl:for-each>
20     </xsl:variable>
21     <xsl:variable name="city" select="lower-case(/in/salesOrder/billingCity)"/>
22     <xsl:variable name="zipCode" select="substring(/in/salesOrder/billingPostalCode, 1, 5)"/>
23     <xsl:variable name="taxRate">
24       <!-- Try to match by exact city and zip, then by zip only and zero otherwise -->
25       <xsl:choose>
26         <xsl:when test="$data/tax[lower-case(col12) = $city and col2 = $zipCode]">
27           <xsl:value-of select="$data/tax[lower-case(col12) = $city and col2 = $zipCode][1]/col3 div
28           100"/>
29         </xsl:when>
30         <xsl:when test="$data/tax[col2 = $zipCode]">
31           <xsl:value-of select="$data/tax[col2 = $zipCode][1]/col3 div 100"/>
32         </xsl:when>
33         <xsl:otherwise>0.00</xsl:otherwise>
34       </xsl:choose>
35     </xsl:variable>
36     <out>
37       <taxAmount1>
38         <xsl:value-of select="$taxRate * /in/this/salesOrderDetail/(amount + discountAmount)"/>
39       </taxAmount1>
40       <taxAmount2>0.00</taxAmount2>
41       <taxAmount3>0.00</taxAmount3>
42       <taxAmount4>0.00</taxAmount4>
43       <taxAmount5>0.00</taxAmount5>
44     </out>
45   </xsl:template>
46 </xsl:transform>
```

5. Modify the XSL rule to replace the example URL with where you actually hosted your CSV file.
6. Save and test.

# Packages

Packages are your shipping containers (box, bag, envelope, tube, etc.) used to pack your products for shipping. For example, you may want to use a small size box to ship small items and have a large box for oversize items. You may also have boxes that are cushion padded for fragile items like glassware or wine bottles. The different size boxes are important and will help reduce your shipping cost by packing efficiently.

The package dimension, weight and max capacity information you provide will help the packing method to intelligently decide the optimal way to pack your products as well as provide more accurate aggregate information to your shipping providers (FedEx, UPS, USPS, etc.) to help reduce unforeseen charges when you actually ship out your products. Please see Packing (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/packing-methods/rvdwkpvm/section>) for more information.

You must first enable the **Packing** feature under **Configuration > General**. Once enabled, you can create packages under **Configuration > Packages** menu.

The screenshot shows the Revindex configuration interface. At the top is a navigation bar with links to Dashboard, Catalog, Sales, Marketing, and Configuration. Below this is a table of existing packages:

Name	Type	Width	Height	Depth		
Large box	Box	50	50	50	Select	Delete
Medium box	Box	25	25	25	Select	Delete

Below the table is an "Add new" button. To the right of the table is a "Save" button. Below the table is a form to create a new package:

Package ID: 2

Name:

Package type:

Weight (g):

Width (cm):

Height (cm):

Depth (cm):

Internal width (cm):

Internal height (cm):

Internal depth (cm):

Max weight capacity (g):

Max quantity capacity:

When creating packages, it's important to make sure your largest package is able to fit your largest product. Otherwise, the system will not be able to determine a suitable package to hold the product and no shipping option will be available to the customer.

If you're using real-time shipping providers and your packing rule is set to place many products in one package, it's important to put a realistic limit to your packages. The limit ensures the packing rule will not attempt to fit too many products in one package and allows the system to gracefully overflow to multiple packages. For example, FedEx and UPS have a max weight of 150 lbs per package. USPS has a max weight of 70 lbs per package. By setting the **Max weight capacity** or **Max quantity capacity** for your package, you ensure the system will not over pack items and exceed shipping limitations. For example, if your packing rule is using the **Volume fit** rule and you have configured a **Max weight capacity** of 10 lbs. If a customer buys 100 units at 1 lbs each, the system will automatically use 10 boxes and pack 10 units per box.

# Packing

If your business sells products that need to be shipped, you likely need to pack the products together in one or many boxes before shipping out. The packing method is used to determine how products are packed together. If you don't configure a packing method, shipping providers will assume you are shipping each item separately in its original dimension and weight. Without a packing method defined, a customer buying 5 items will normally result in 5 times the shipping amount to ship a single item.

How you pack will affect how much it costs you to ship, and in turn, how much you charge your customers for shipping. Customers will usually abandon from buying at your store if they see an extremely high shipping cost. In fact, studies have shown ([http://www.ups.com/media/en/Smarter\\_Strategies\\_for\\_Free\\_Shipping.pdf](http://www.ups.com/media/en/Smarter_Strategies_for_Free_Shipping.pdf)) shipping and handling fees are the number one factor for cart abandonment. Shipping providers (FedEx, UPS, USPS, etc.) determine shipping rates based on the weight and dimension of your boxes. With rising cost of fuel, shipping providers have aggressively increased shipping rates to the point that they now measure dimensional weight (i.e. if your package is very large, but not necessarily heavy, they will charge based on their calculated density instead of your package weight). It is, therefore, in your best interest to optimize your shipping calculation by using packing methods to ensure you get the lowest shipping rates to win your customers.

For example, if a customer orders 4 bottles of wine, the packing rule can decide if all items can fit in one large box or whether they need to be split up in 2 medium boxes or perhaps they should be packed one small box per item because of the fragile nature of the items. In another example, you may sell an oversize product like a bicycle that needs to be split up in 2 boxes, one for the frame and the other for the wheels. Packing rule can help provide a more accurate shipping estimation and save you money.

You must first enable the **Packing** feature under **Configuration > General**. Once enabled, you can start defining your available Packages (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/packages/rvdwkpvm/section>) (box, bag, envelope, tube, etc.) and their dimensions. Under **Configuration > Packing** menu, you can then configure the packing method to use one of the predefined rules or write your own custom rule. The rules can make use of these packages to determine how to pack the items.

If you recently created the packing rule, make sure you start a new cart session so that the system recognizes your packing rule when testing.

Name		
Pack all	Select	Delete

General

Pack

Pack rule: Volume fit - fit packages by volume approxima

Fill factor (%): 70.0000

Save

The packing method can also use powerful XSL transform to write your own custom packing rule. The expected output should return the shipping packages to use. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.





## Single package

The "Single package" rule assumes you will pack all your products ordered into a single package for mailing. The dimensions that are passed to the shipping provider will be the external dimension of the package itself regardless of what you actually store within it (i.e. it does not validate if products will actually fit since you decided this is the package to use). However, the total weight submitted to the shipping provider is the sum of the weight of all your products plus the weight of the empty package.

## Single product

The "Single product" rule assumes you want to pack one product per package. For example, if you are shipping 3 products, each product will be packed separately. The system will attempt to find the smallest package that can fit your product or it will create a new package dynamically if no suitable package is found.

## Volume fit

The "Volume fit" rule attempts to pack as many product into as few packages possible by the calculated volume (Width x Height x Depth). This rule is a classic "bin-packing ([https://en.wikipedia.org/wiki/Bin\\_packing\\_problem](https://en.wikipedia.org/wiki/Bin_packing_problem))" algorithm with a NP-hard complexity meaning even with today's modern science, there is still no known efficient way to locate a solution by a computer without using brute force. Since 100% coverage by brute force is not always possible without overtaxing the server, the resulting solution is only a best guess approximation by a computer that is mostly accurate, but may not guarantee the most efficient way to pack. Only a human brain can perform this task effortlessly.

The algorithm tries to find the best fitting package(s) by matching the available volume of the package with the volume of the products as well as taking into consideration any package quantity restrictions, max weight, etc. The available volume of the package is reduced by the fill factor to allow for some empty space in real life packing (e.g if fill factor is 90%, it means the available space of the package is 90% of the volume of the internal package dimensions). If it cannot fit all in one package, it will overflow to the next package and so on. The algorithm will optimize for the least number of packages by favoring for larger packages over smaller ones (i.e. it will try to fit more into a large package to avoid splitting into many smaller ones). If no suitable package is found that can fit the smallest product, it will dynamically create a package to hold the product.

# Shipping

If your product requires shipping, you can configure available shipping methods and rate from the **Configuration > Shipping** menu. Click **Add New** and give it a name (e.g. "Ground shipping") to create a new custom shipping method. Select the appropriate availability and rate rules. You can assign a tax class if this shipping method is taxable. You must create at least one shipping method if you have products for sale that require shipping.

[Dashboard](#) [Catalog](#) [Sales](#) [Marketing](#) [Configuration](#)

Name	Type		
Air	Custom Rule	Select	Delete
FedEx 2 Day	FedEx 2 Day	Select	Delete
FedEx Express Saver	FedEx Express Saver	Select	Delete
FedEx Ground	FedEx Ground	Select	Delete
FedEx International Economy	FedEx International Economy	Select	Delete
FedEx International First	FedEx International First	Select	Delete
FedEx International Priority	FedEx International Priority	Select	Delete
FedEx Overnight	FedEx Overnight	Select	Delete
FedEx Priority Overnight	FedEx Priority Overnight	Select	Delete
FedEx Standard Overnight	FedEx Standard Overnight	Select	Delete

1 2 3

Add new

GeneralAvailabilityRate

Shipping method ID:

Type:Custom Rule

Name:

Tax class:[NONE]

Display order:1000

Save

# Shipping Availability

You can configure availability rule based on quantity, amount, weight, etc. that determines if a shipping method should become available for selection during customer checkout.

General

Availability

Rate

Availability rule:

Basic

Min total amount:

0.0000

Max total amount:

Min total quantity:

0.0000

Max total quantity:

Min total weight (g):

0.0000

Max total weight (g):

Region match:

☒ Allow all except listed below

☐ Allow only those listed below

Regions:

☒ Add new

Country:

Any

State/Province:

Any

Postal code:

OK

The availability rule can also use XSL transform to determine whether this shipping method is available for selection during checkout. The expected output should return "true" to indicate this shipping method is available for selection, otherwise "false" if disallowed. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Shipping Rate

You can easily configure the shipping rate to charge based on amount, quantity, weight, product's fixed rate, etc.

General

Availability

Rate

Rate rule:

Flatrate - based on weight, amount, quantity...

Base amount:

☒ 0.0000

Shipping rate (%):

☒ 0.0000

Rate based on:

Total amount

Minimum amount:

☒ 0.0000

The rate formula can also use XSL transform to calculate the shipping charges. The expected output should return the calculated shipping amount to charge. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.

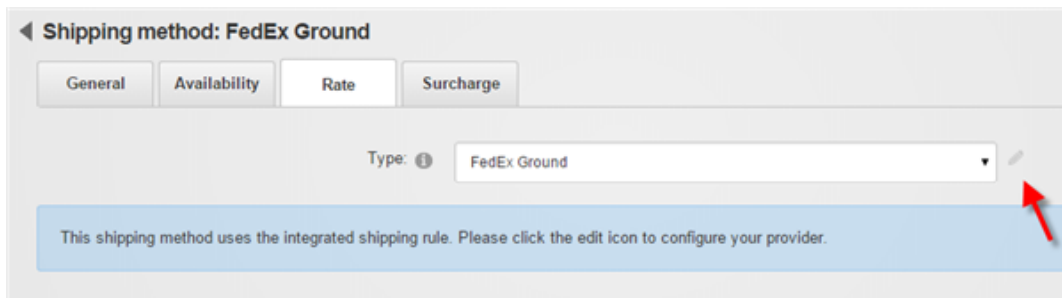


On the **Catalog > Products** menu, you will also want to tick the **Require shipping** checkbox on your product variants. This ensures that only those products will participate in the shipping calculation. If your shipping method is using the "Product rate" rule, it will use the amount entered in the product variant's **Shipping price** field to calculate shipping charges.

# Providers

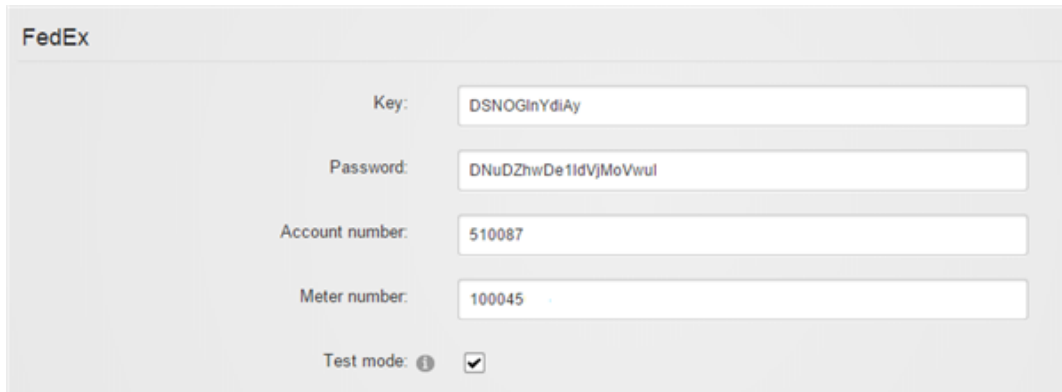
Revindex Storefront supports several integrated shipping carriers (e.g. FedEx, UPS, USPS, etc.) and will automatically calculate the shipping charge in real-time on checkout.

Start by configuring the shipping service available to your customers by adding it to the **Configuration > Shipping**. You can optionally configure the availability rule (e.g. allows FedEx Priority Overnight for reseller roles only) if you wish to restrict the shipping service to certain conditions. Because rates and availability are provided by the shipping carrier in real-time over the Internet, your checkout page loading time will increase as you enable more than several integrated shipping carriers. Click on the edit icon to enter the account credentials.



The screenshot shows the 'Shipping method: FedEx Ground' configuration page. It has four tabs: 'General', 'Availability', 'Rate', and 'Surcharge'. The 'Type' dropdown is set to 'FedEx Ground'. A red arrow points to a small edit icon (a pencil) next to the dropdown. Below the dropdown, a blue box contains the text: 'This shipping method uses the integrated shipping rule. Please click the edit icon to configure your provider.'

Only enable **Test mode** if your gateway provided you with a separate test account. The test account is usually different from your production account. Under test mode, the system will attempt to transact with the gateway's sandbox server and results will often vary depending on the test configuration. Please consult your shipping providers's API documentation for running in test mode.



The screenshot shows the 'FedEx' configuration form. It includes fields for 'Key' (DSNOGlnYdiAy), 'Password' (DNuDZhwDe1ldVjMoVwul), 'Account number' (510087), and 'Meter number' (100045). At the bottom, there is a 'Test mode' checkbox which is checked.

Shipping calculation is primarily based on the customer shipping address, your store address in the **Configuration > General** menu as well as the weight, dimensions and package type configured for your product. Your shipping carrier may also determine the availability and rate based on your account standing, date of request, etc. Please contact us if you don't see the shipping provider you like to use.

# ABF

ABF (<https://www.abfs.com>) provides freight shipping in United States, Canada, Mexico, Puerto Rico and Dominican Republic. The following fields are required:

- Secure ID



# Australia Post

Australia Post (<http://www.auspost.com.au/>) provides letter and parcel shipping from Australia to anywhere in the world. The following fields are required:

1. **API Key**

# Canada Post

Canada Post (<https://www.canadapost.ca>) provides letter and parcel shipping from Canada to anywhere in the world. The following fields are required:

1. **API Key UserID**
2. **API Key Password**
3. **Customer number**
4. **Contract ID** - Optional to obtain commercial discounts.

# CouriersPlease

CouriersPlease (<https://www.couriersplease.com.au/>) provides primarily parcel shipping in Australia. The following fields are required:

- Account number
- API Key

# DHL Express

DHL Express (<http://www.dhl.com/en/express.html>) provides international parcel shipping to anywhere in the world. The following fields are required:

1. **Site ID**
2. **Password**
3. **Payment account number**

# FedEx

FedEx (<http://www.fedex.com/>) provides parcel delivery service around the world and freight services. The following fields are required:

1. **Key**
2. **Password**
3. **Account number**
4. **Meter number**
5. **Freight account number** - Only needed if you intended to ship by freight. The address registered with FedEx for this account number must match your store or seller address.

You will first need to register a valid FedEx account from the <http://www.fedex.com> ( <http://www.fedex.com>) web site. (Click on the **Register** link).

Once you are registered, you need to request your authentication key by completing this form (<https://www.fedex.com/wpor/web/jsp/commonTC.jsp>). Choose the **FedEx Web Services for Shipping** and **Corporate Developer**. Save your authentication key. You should receive an email from FedEx with the rest of your credentials.

If you're shipping by FedEx freight services, please make sure to specify a valid NMFC freight class in your package's shipping code (e.g. "50"). Please see Packages (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/packages/rvdwkpvm/section>) for more information.

# Purolator

Purolator (<https://www.purolator.com>) provides parcel delivery service from Canada to around the world. The following fields are required:

1. **Key**
2. **Password**
3. **Account number**

You need to request permission from Purolator to ensure your account has access to perform a full estimation.

# Shipwire

Shipwire (<http://www.shipwire.com>) provides order fulfillment and shipping service. With Shipwire, you can deliver your products using a wide range of carriers including Canada Post, FedEx, Parcelforce, Purolator, Royal Mail, UPS, USPS, etc. from multiple warehouses. The following fields are required:

1. **Username**
2. **Password**

You will first need to register a valid Shipwire account from the <http://www.shipwire.com> ( <http://www.shipwire.com>) web site.

# Southeastern

Southeastern Freight Lines (<https://www.sefl.com>) provides freight shipping in United States, Canada and Mexico. The following fields are required:

- Username
- Password
- Customer account

Please make sure to specify a valid NMFC freight class code in your package's shipping code (e.g. "50"). Please see Packages (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/packages/rvdwkpvm/section>) for more information.



# Unishippers

Unishippers (<https://www.unishippers.com>) provides shipping cost savings through Unishippers extensive partners. The following fields are required:

- Username
- Password
- Customer number
- UPS account number

# UPS

UPS (<http://www.ups.com/>) provides parcel delivery service around the world and freight services. The following fields are required:

1. **Access key**
2. **Username**
3. **Password**
4. **Shipper number** - This is also known as your account number.

You will first need a valid UPS account by registering here (<https://www.ups.com/upsdeveloperkit>) (Click on the **Register** link).

Once you are registered, you need to request your access key by going to the **Technology support > Developer resource > UPS Developer Kit** page on the UPS web site. Click on the **Request an access key** link. Complete the form.

If you're shipping by UPS freight services, please make sure to specify a valid NMFC freight class code in your package's shipping code (e.g. "50"). Please see Packages (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/packages/rvdwkpvm/section>) for more information.

# USPS

USPS (<https://www.usps.com/>) is the official mail carrier for the United States. USPS mainly ships from within the United States addresses (from and to). You can obtain access to USPS web tools by applying here (<https://secure.shippingapis.com/registration/>). The following fields are required:

1. **User ID** – Your Web tools User ID.
2. **Password** – Your Web tools password.

You will need to contact USPS that you would like to take your account to production mode. You can tell USPS that you have completed the testing required for production mode. Simply email **uspstechnicalsupport@mailps.custhelp.com** with the subject heading "Please move User ID xxxxxx to the production server". Alternatively, you can follow the contact instructions in the USPS email sent to you during your registration. You may also try contacting **USPS Internet Customer Care Center** directly over the phone at **1-800-344-7779 Opt. 3**

# How to configure real-time shipping

When configuring real-time shipping (FedEx, UPS, USPS, etc.), make sure to follow the steps below:

1. Obtain valid API credentials from your real-time shipping provider. Often times, the API credentials are different than your login credentials.
2. Enter a valid address under **Configuration > General** menu settings. Your real-time shipping provider uses your business address to determine the outgoing sender address. If you use the seller or warehouse functionality, make sure they too have valid addresses.
3. Make sure your product variants have the "Require shipping" checked and have a valid Weight, Width, Height and Depth measurements specified. Your real-time shipping provider uses the information to calculate shipping cost.

For the dimensions and weight, we recommend testing with a small product first that isn't too big and doesn't weigh too much since over-sized items don't qualify for many shipping methods (e.g. a very large product won't be allowed for services intended for small parcel delivery. FedEx and UPS have a max weight of 150 lbs. USPS has a max weight of 70 lbs. On the other hand, if you're shipping by freight, your product weight should be over 150 lbs.)

For the package type, we recommend using "Unspecified" because certain types of packages are not allowed by the shipping method (e.g. "Box" cannot be shipped by a letter mail service). It's best to leave it to the shipping method to decide what default type of package to use.

If you're using shipping by freight, you normally need to enter a shipping code that corresponds to your freight class (e.g. "50").

Please remember to clear your shopping cart and re-add the item to your cart after each time changing the product dimension or weight. You can also visit the shipping provider's Web site directly and enter the same dimension/weight and compare the results.

4. We recommend that you avoid using any packing rule under **Configuration > Packing** to simplify your tests.
5. Configure the allowable shipping services under **Configuration > Shipping** menu by adding the appropriate shipping methods. Make sure to add services that make sense (e.g. ground shipping cannot ship to Alaska, or International etc.). Your real-time shipping provider will determine which of the configured shipping services are available for shipping so it's a good idea to configure as many shipping services while testing even if you don't intend to use them in production (you can remove them later).
6. For the selected Type, click on the edit icon to enter the API credentials for your shipping provider. Do not use **Test mode** unless you've been explicitly given test credentials by your provider.
7. When testing and checking out as a customer, make sure to enter a valid address. Your real-time shipping provider will use it to determine if they can service this request. For example, if you're using USPS, you probably want to test with a valid address shipped from and to the United States. You want to avoid testing international addresses to make your testing simpler.
8. Check your DNN Event viewer for any errors.

9. You can enable Debug logging to capture additional shipping related information from your shipping gateways. Please see Log Level (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/log-level/rvdwkpvm/section>) for more information on how to enable debug mode.

By default, the Storefront assumes you ship each product separately. For example, if you added 2 quantities of the same products to the cart, you would expect the shipping rates to double. If you frequently ship multiple products in a single box, you can reduce shipping cost by telling the Storefront how you intend to pack your products. Please see Packing (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/packing-methods/rvdwkpvm/section>) for more information.

# Fulfillment

You can automate and streamline your shipping and fulfillment processes using 3rd party fulfillment systems (e.g. ShipWorks).

You must first enable the **Fulfillment** feature under **Configuration > General**. Once enabled, you can configure your fulfillment system from the **Configuration > Fulfillment** menu. Make sure to enter the account credentials by clicking on the edit icon for each individual fulfillment systems.

Please contact us if you don't see the fulfillment provider you like to use.

# ShipWorks

ShipWorks (<http://www.shipworks.com>) is a 3rd party software that helps you automate shipping. It will help you print shipping labels, packing slips and track packages easily. In order to allow ShipWorks to interface with your Storefront, you must first create the credentials. Select "Generic module" when prompted for the platform. The following fields are required:

1. **Username** - enter any characters to create your username.
2. **Password** - enter any characters for your password.
3. **URL** - Enter the URL to your store's fulfillment handler page.  
E.g. <http://mysite.com/DesktopModules/Revindex.Dnn.RevindexStorefront/FulfillmentHandler.ashx?portalid=0&rvdsffgw=ShipWorks> where 0 is your portal ID number. If you are a marketplace seller, you must also append the **&rvdsfsellerid=1** parameter where 1 is your seller ID.

You need to enter the same credentials and URL in your ShipWorks software to allow ShipWorks to communicate with the Storefront.

# Handling

The Storefront can charge a handling fee based on your predefined rules. For example, your business may charge a handling fee for international customers, for shipping oversize packages or perhaps for receiving an EFT (wire transfer) payment.

You must first enable the **Handling** feature under **Configuration > General**. Once enabled, you can configure the handling method and rate from the **Configuration > Handling** menu. Click **Add New** and give it a name (e.g. "Packaging ") to create a new handling method and select a handling rule. You can assign a tax class if this handling method is taxable.

The screenshot shows a web application interface for configuring handling rules. At the top is a navigation bar with links: Dashboard, Catalog, Sales, Marketing, and Configuration. Below this is a table with columns: Name, Select, and Delete. The first row is labeled 'Handling'. Below the table is a 'Save' button. The main configuration area has two tabs: 'General' and 'Rate'. The 'Rate' tab is active, showing the following fields: 'Rate rule:' with a dropdown menu set to 'Flat rate - based on weight, amount, quantity...', 'Base amount:' with a text input field containing '4.0000', 'Handling rate (%):' with a text input field containing '3.0000', 'Rate based on:' with a dropdown menu set to 'Total amount', and 'Minimum amount:' with a text input field containing '0.0000'.

The rate formula can also use XSL transform to calculate the handling charges. The expected output should return the calculated handling amount to charge. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



On the **Catalog > Products** menu, you will also want to tick the **Require handling** checkbox on your product variants. This ensures that only those products will participate in the handling calculation. If your handling method is using the "Product rate" rule, it will use the amount entered in the product variant's **Handling price** field to calculate handling charges.



## How to charge handling for payment type

A good use for handling method is to charge an extra service fee depending on the customer's selected payment method. For example, you may want to charge a small fee if the customer pays by wire transfer because you incur a fee from your bank for this type of payment.

The video below shows how to charge \$1.00 when the customer elects to pay by credit card. Please see Payment Method Types (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-method-types/rvdwkpvm/section>) for the different payment method lookup values.

# Communications

# Cart abandon email

This email is sent out to users whose incomplete orders have reached the threshold time and is considered as abandoned. For example, you may want to lure them back to shop at your site with a discount coupon, etc.

An order is considered abandoned if the status is "Incomplete" and the elapsed time from the sales order's create date exceeds the **Cart abandon timeout** value under **Configuration > Cart** settings. The cart abandon email is only sent once to avoid annoying the customer and this is indicated in the sales order's **Cart abandon notified** flag that the merchant can reset if needed. You can also force the cart abandon email to send out by clicking on the **Email cart abandon** button under the sales order screen.

For obvious reasons, a cart abandon email can only be sent if there is an email address captured with the order (i.e the user registered an account or attempted to checkout with an email address). By default, the Storefront will send the email to the registered user email and billing email addresses.

If your store has amassed many incomplete orders for a long period of time and you now decide to enable the cart abandon email, you may want to manually mark the old incomplete orders as already notified first. You can also configure the Storefront to automatically delete incomplete orders (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-auto-delete-incomplete-orders/rvdwkpvm/section>) and letting it run its due course prior to enabling the cart abandon email.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <cart>
3     <tabUrl>https://site.com/page</tabUrl>
4   </cart>
5   <configuration>
6     <generalEmailRecipient>recipient@localhost.com</generalEmailRecipient>
7     <generalEmailSender>test@example.com</generalEmailSender>
8     <generalStoreName>Revindex Storefront</generalStoreName>
9   </configuration>
10  <portal>
11    <cartTabs>
12      <tab>
13        <tabID>57</tabID>
14      </tab>
15    </cartTabs>
16    <checkoutTabs>
17      <tab>
18        <tabID>61</tabID>
19      </tab>
20    </checkoutTabs>
21    <manageOrderTabs>
22      <tab>
23        <tabID>62</tabID>
24      </tab>
25    </manageOrderTabs>
26    <manageVoucherTabs>
27      <tab>
28        <tabID>174</tabID>
29      </tab>
30    </manageVoucherTabs>
31    <portalAliases>
32      <portalAlias>
33        <cultureCode></cultureCode>
34        <httpAlias>site.com</httpAlias>
35        <isPrimary>true</isPrimary>
36        <portalAliasID>1</portalAliasID>
37      </portalAlias>
38    </portalAliases>
39    <portalID>0</portalID>
40  </portal>
41  <salesOrder>
42    <billingCity>Beverley Hills</billingCity>
```

```

43 <billingCompany>Revindex</billingCompany>
44 <billingCountryCode>US</billingCountryCode>
45 <billingCountryName>United States</billingCountryName>
46 <billingEmail>text@example.com</billingEmail>
47 <billingFirstName>John</billingFirstName>
48 <billingLastName>Doe</billingLastName>
49 <billingPhone>111-111-1111</billingPhone>
50 <billingPostalCode>90210</billingPostalCode>
51 <billingStreet>1 Melrose</billingStreet>
52 <billingSubdivisionCode>US-CA</billingSubdivisionCode>
53 <billingSubdivisionName>California</billingSubdivisionName>
54 <businessTaxNumber>GB 123456789</businessTaxNumber>
55 <couponCodes>
56   <couponCode>free2</couponCode>
57 </couponCodes>
58 <cultureCode>en-US</cultureCode>
59 <currency>
60   <currencySymbol>$</currencySymbol>
61   <isoCurrencySymbol>USD</isoCurrencySymbol>
62 </currency>
63 <currencyCultureCode>en-US</currencyCultureCode>
64 <dynamicFormResult>
65   <fields>
66     <field id="CustomName">Name1</field>
67     <field id="CustomText">MyText</field>
68     <field id="CustomColor">
69       <selected>Red</selected>
70       <selected>Blue</selected>
71     </field>
72     <field id="CustomSize">
73       <selected>XL</selected>
74     </field>
75   </fields>
76 </dynamicFormResult>
77 <exchangeRate>1.0000</exchangeRate>
78 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
79 <formattedTotalAmount>$20.00</formattedTotalAmount>
80 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
81 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
82 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
83 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
84 <formattedTotalTaxAmount></formattedTotalTaxAmount>
85 <handlingAmount>9.00</handlingAmount>
86 <handlingDiscountAmount>0</handlingDiscountAmount>
87 <orderDate>2001-01-01T12:00:00</orderDate>
88 <origin>1</origin>
89 <parentSalesOrderID></parentSalesOrderID>
90 <purchaseOrderNumber></purchaseOrderNumber>
91 <rewardsPointsQualified>0</rewardsPointsQualified>
92 <salesOrderDetails>
93   <salesOrderDetail>
94     <amount>10.0000</amount>
95     <amountWithTax>10.0000</amountWithTax>
96     <bookingStartDate></bookingStartDate>
97     <bookingStopDate></bookingStopDate>
98     <combinedAmount>10.0000</combinedAmount>
99     <combinedAmountWithTax>10.0000</combinedAmountWithTax>
100    <combinedPrice>10.0000</combinedPrice>
101    <combinedTotalAmount>10.0000</combinedTotalAmount>
102    <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
103    <discountAmount>0</discountAmount>
104    <dynamicFormResult>
105      <fields>
106        <field id="CustomURL">http://www.yahoo.com</field>
107        <field id="CustomText">MyText</field>
108        <field id="CustomColor">
109          <selected>Red</selected>
110          <selected>Blue</selected>
111        </field>
112        <field id="CustomSize">
113          <selected>XL</selected>
114        </field>
115      </fields>
116    </dynamicFormResult>
117    <formattedAmount>$10.00</formattedAmount>
118    <formattedCombinedAmount>$10.00</formattedCombinedAmount>
119    <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
120    <formattedCombinedPrice>$10.00</formattedCombinedPrice>
121    <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
122    <formattedDiscountAmount>$0.00</formattedDiscountAmount>
123    <formattedPrice>$10.00</formattedPrice>
124    <formattedTotalAmount>$10.00</formattedTotalAmount>
125    <parentSalesOrderDetailID></parentSalesOrderDetailID>
126    <price>10.0000</price>
127    <productName>Good Book</productName>
128    <productVariant>
129      <basePrice>10.0000</basePrice>
130      <inventoryUnitType>1</inventoryUnitType>
131      <msrp>10.0000</msrp>
132      <name>Series 1</name>
133      <product>
134        <name>Good Book</name>

```

```

135     <summary></summary>
136   </product>
137   <sku>A100</sku>
138   <summary></summary>
139 </productVariant>
140 <productVariantExtension>
141   <data>
142     <shippingRate>1.00</shippingRate>
143   </data>
144 </productVariantExtension>
145 <productVariantName>Series 1</productVariantName>
146 <quantity>1</quantity>
147 <salesOrderDetailID>102</salesOrderDetailID>
148 <shippingStatus>3</shippingStatus>
149 <sku>A100</sku>
150 <status>1</status>
151 <totalAmount>10.0000</totalAmount>
152 <totalAmountWithTax>10.0000</totalAmountWithTax>
153 </salesOrderDetail>
154 </salesOrderDetails>
155 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
156 <salesOrderNumber>SA1000</salesOrderNumber>
157 <salesPayments>
158   <salesPayment>
159     <amount>10.0000</amount>
160     <creditCardHint>4345</creditCardHint>
161     <formattedAmount>$10.00</formattedAmount>
162     <paymentDate>2001-01-01T12:00:00</paymentDate>
163     <paymentGateway>PayPalWPP</paymentGateway>
164     <paymentHint></paymentHint>
165     <paymentMethod>3</paymentMethod>
166     <paymentMethodName>Credit card</paymentMethodName>
167     <responseCode>1</responseCode>
168     <transactionType>2</transactionType>
169     <voucherHint></voucherHint>
170   </salesPayment>
171 </salesPayments>
172 <salesPaymentStatus>1</salesPaymentStatus>
173 <seller>
174   <city>Beverley Hills</city>
175   <countryCode>US</countryCode>
176   <email>test@example.com</email>
177   <phone>111-111-1111</phone>
178   <postalCode>90210</postalCode>
179   <street>1 Melrose</street>
180   <subdivisionCode>US-CA</subdivisionCode>
181 </seller>
182 <sellerID>1</sellerID>
183 <shippingAmount>1.00</shippingAmount>
184 <shippingCity>Beverley Hills</shippingCity>
185 <shippingCompany>Revindex</shippingCompany>
186 <shippingCountryCode>US</shippingCountryCode>
187 <shippingCountryName>United States</shippingCountryName>
188 <shippingDiscountAmount>0</shippingDiscountAmount>
189 <shippingEmail>text@example.com</shippingEmail>
190 <shippingFirstName>John</shippingFirstName>
191 <shippingLastName>Doe</shippingLastName>
192 <shippingMethod>
193   <name>Ground</name>
194 </shippingMethod>
195 <shippingMethodID>2</shippingMethodID>
196 <shippingPhone>111-111-1111</shippingPhone>
197 <shippingPostalCode>90210</shippingPostalCode>
198 <shippingStatus>1</shippingStatus>
199 <shippingStreet>1 Melrose</shippingStreet>
200 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
201 <shippingSubdivisionName>California</shippingSubdivisionName>
202 <status>7</status>
203 <subTotalAmount>10.00</subTotalAmount>
204 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
205 <taxAmount1>0.00</taxAmount1>
206 <taxAmount2>0.00</taxAmount2>
207 <taxAmount3>0.00</taxAmount3>
208 <taxAmount4>0.00</taxAmount4>
209 <taxAmount5>0.00</taxAmount5>
210 <taxDiscountAmount>0</taxDiscountAmount>
211 <totalAmount>20.00</totalAmount>
212 <totalHandlingAmount>9.00</totalHandlingAmount>
213 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
214 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
215 <totalSavingsAmount>0.00</totalSavingsAmount>
216 <totalShippingAmount>1.00</totalShippingAmount>
217 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
218 <userHostAddress>127.0.0.1</userHostAddress>
219 <warehouse>
220   <city>Beverley Hills</city>
221   <countryCode>US</countryCode>
222   <email></email>
223   <phone></phone>
224   <postalCode>90210</postalCode>
225   <street>1 Melrose</street>
226   <subdivisionCode>US-CA</subdivisionCode>

```

```
227     </warehouse>
228     <warehouseID>1</warehouseID>
229 </salesOrder>
230 <user>
231   <email>user@address.com</email>
232   <firstName>John</firstName>
233   <lastName>Doe</lastName>
234   <profile>
235     <profileProperties>
236       <Biography></Biography>
237       <Cell></Cell>
238       <City>Beverley Hills</City>
239       <Country>United States</Country>
240       <Fax></Fax>
241       <FirstName>John</FirstName>
242       <IM></IM>
243       <LastName>Doe</LastName>
244       <MiddleName></MiddleName>
245       <Photo></Photo>
246       <PostalCode>90210</PostalCode>
247       <PreferredLocale>en-US</PreferredLocale>
248       <Prefix></Prefix>
249       <Region>California</Region>
250       <Street>1 Melrose</Street>
251       <Suffix></Suffix>
252       <Telephone>111-111-1111</Telephone>
253       <TimeZone>0</TimeZone>
254       <Unit></Unit>
255       <Website></Website>
256     </profileProperties>
257   </profile>
258   <roles>
259     <role>Role1</role>
260     <role>Role2</role>
261   </roles>
262   <userHostAddress>127.0.0.1</userHostAddress>
263   <userID>1</userID>
264   <username>host</username>
265 </user>
266 </in>
267
```

# Order alert email

Email alerts are sent out whenever a new order is placed on your shopping cart. By default, the Storefront will send the alert to the sender email address listed under the **Configuration > General** settings.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailRecipient>recipient@localhost.com</generalEmailRecipient>
4     <generalEmailSender>test@example.com</generalEmailSender>
5     <generalStoreName>Revindex Storefront</generalStoreName>
6   </configuration>
7   <portal>
8     <cartTabs>
9       <tab>
10        <tabID>57</tabID>
11      </tab>
12    </cartTabs>
13    <checkoutTabs>
14      <tab>
15        <tabID>61</tabID>
16      </tab>
17    </checkoutTabs>
18    <manageOrderTabs>
19      <tab>
20        <tabID>62</tabID>
21      </tab>
22    </manageOrderTabs>
23    <manageVoucherTabs>
24      <tab>
25        <tabID>174</tabID>
26      </tab>
27    </manageVoucherTabs>
28    <portalAliases>
29      <portalAlias>
30        <cultureCode></cultureCode>
31        <httpAlias>site.com</httpAlias>
32        <isPrimary>true</isPrimary>
33        <portalAliasID>1</portalAliasID>
34      </portalAlias>
35    </portalAliases>
36    <portalID>0</portalID>
37  </portal>
38  <salesOrder>
39    <billingCity>Beverley Hills</billingCity>
40    <billingCompany>Revindex</billingCompany>
41    <billingCountryCode>US</billingCountryCode>
42    <billingCountryName>United States</billingCountryName>
43    <billingEmail>text@example.com</billingEmail>
44    <billingFirstName>John</billingFirstName>
45    <billingLastName>Doe</billingLastName>
46    <billingPhone>111-111-1111</billingPhone>
47    <billingPostalCode>90210</billingPostalCode>
48    <billingStreet>1 Melrose</billingStreet>
49    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
50    <billingSubdivisionName>California</billingSubdivisionName>
51    <businessTaxNumber>GB 123456789</businessTaxNumber>
52    <couponCodes>
53      <couponCode>free2</couponCode>
54    </couponCodes>
55    <cultureCode>en-US</cultureCode>
56    <currency>
57      <currencySymbol>$</currencySymbol>
58      <isoCurrencySymbol>USD</isoCurrencySymbol>
59    </currency>
60    <currencyCultureCode>en-US</currencyCultureCode>
61    <dynamicFormResult>
62      <fields>
63        <field id="CustomName">Name1</field>
64        <field id="CustomText">MyText</field>
65        <field id="CustomColor">
66          <selected>Red</selected>
67          <selected>Blue</selected>
68        </field>
69        <field id="CustomSize">
```

```

70     <selected>XL</selected>
71 </field>
72 </fields>
73 </dynamicFormResult>
74 <exchangeRate>1.0000</exchangeRate>
75 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
76 <formattedTotalAmount>$20.00</formattedTotalAmount>
77 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
78 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
79 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
80 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
81 <formattedTotalTaxAmount></formattedTotalTaxAmount>
82 <handlingAmount>9.00</handlingAmount>
83 <handlingDiscountAmount>0</handlingDiscountAmount>
84 <orderDate>2001-01-01T12:00:00</orderDate>
85 <origin>1</origin>
86 <parentSalesOrderID></parentSalesOrderID>
87 <purchaseOrderNumber></purchaseOrderNumber>
88 <rewardsPointsQualified>0</rewardsPointsQualified>
89 <salesOrderDetails>
90   <salesOrderDetail>
91     <amount>10.0000</amount>
92     <amountWithTax>10.0000</amountWithTax>
93     <bookingStartDate></bookingStartDate>
94     <bookingStopDate></bookingStopDate>
95     <combinedAmount>10.0000</combinedAmount>
96     <combinedAmountWithTax>10.0000</combinedAmountWithTax>
97     <combinedPrice>10.0000</combinedPrice>
98     <combinedTotalAmount>10.0000</combinedTotalAmount>
99     <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
100    <discountAmount>0</discountAmount>
101    <dynamicFormResult>
102      <fields>
103        <field id="CustomURL">http://www.yahoo.com</field>
104        <field id="CustomText">MyText</field>
105        <field id="CustomColor">
106          <selected>Red</selected>
107          <selected>Blue</selected>
108        </field>
109        <field id="CustomSize">
110          <selected>XL</selected>
111        </field>
112      </fields>
113    </dynamicFormResult>
114    <formattedAmount>$10.00</formattedAmount>
115    <formattedCombinedAmount>$10.00</formattedCombinedAmount>
116    <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
117    <formattedCombinedPrice>$10.00</formattedCombinedPrice>
118    <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
119    <formattedDiscountAmount>$0.00</formattedDiscountAmount>
120    <formattedPrice>$10.00</formattedPrice>
121    <formattedTotalAmount>$10.00</formattedTotalAmount>
122    <parentSalesOrderDetailID></parentSalesOrderDetailID>
123    <price>10.0000</price>
124    <productName>Good Book</productName>
125    <productVariant>
126      <basePrice>10.0000</basePrice>
127      <inventoryUnitType>1</inventoryUnitType>
128      <msrp>10.0000</msrp>
129      <name>Series 1</name>
130      <product>
131        <name>Good Book</name>
132        <summary></summary>
133      </product>
134      <sku>A100</sku>
135      <summary></summary>
136    </productVariant>
137    <productVariantExtension>
138      <data>
139        <shippingRate>1.00</shippingRate>
140      </data>
141    </productVariantExtension>
142    <productVariantName>Series 1</productVariantName>
143    <quantity>1</quantity>
144    <salesOrderDetailID>102</salesOrderDetailID>
145    <shippingStatus>3</shippingStatus>
146    <sku>A100</sku>
147    <status>1</status>
148    <totalAmount>10.0000</totalAmount>
149    <totalAmountWithTax>10.0000</totalAmountWithTax>
150  </salesOrderDetail>
151 </salesOrderDetails>
152 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
153 <salesOrderNumber>SA1000</salesOrderNumber>
154 <salesPayments>
155   <salesPayment>
156     <amount>10.0000</amount>
157     <creditCardHint>4345</creditCardHint>
158     <formattedAmount>$10.00</formattedAmount>
159     <paymentDate>2001-01-01T12:00:00</paymentDate>
160     <paymentGateway>PayPalWPP</paymentGateway>
161     <paymentHint></paymentHint>

```



```
162     <paymentMethod>3</paymentMethod>
163     <paymentMethodName>Credit card</paymentMethodName>
164     <responseCode>1</responseCode>
165     <transactionType>2</transactionType>
166     <voucherHint></voucherHint>
167   </salesPayment>
168 </salesPayments>
169 <salesPaymentStatus>1</salesPaymentStatus>
170 <seller>
171   <city>Beverley Hills</city>
172   <countryCode>US</countryCode>
173   <email>test@example.com</email>
174   <phone>111-111-1111</phone>
175   <postalCode>90210</postalCode>
176   <street>1 Melrose</street>
177   <subdivisionCode>US-CA</subdivisionCode>
178 </seller>
179 <sellerID>1</sellerID>
180 <shippingAmount>1.00</shippingAmount>
181 <shippingCity>Beverley Hills</shippingCity>
182 <shippingCompany>Revindex</shippingCompany>
183 <shippingCountryCode>US</shippingCountryCode>
184 <shippingCountryName>United States</shippingCountryName>
185 <shippingDiscountAmount>0</shippingDiscountAmount>
186 <shippingEmail>text@example.com</shippingEmail>
187 <shippingFirstName>John</shippingFirstName>
188 <shippingLastName>Doe</shippingLastName>
189 <shippingMethod>
190   <name>Ground</name>
191 </shippingMethod>
192 <shippingMethodID>2</shippingMethodID>
193 <shippingPhone>111-111-1111</shippingPhone>
194 <shippingPostalCode>90210</shippingPostalCode>
195 <shippingStatus>1</shippingStatus>
196 <shippingStreet>1 Melrose</shippingStreet>
197 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
198 <shippingSubdivisionName>California</shippingSubdivisionName>
199 <shippingTrackingCode>GH88888</shippingTrackingCode>
200 <status>2</status>
201 <subTotalAmount>10.00</subTotalAmount>
202 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
203 <taxAmount1>0.00</taxAmount1>
204 <taxAmount2>0.00</taxAmount2>
205 <taxAmount3>0.00</taxAmount3>
206 <taxAmount4>0.00</taxAmount4>
207 <taxAmount5>0.00</taxAmount5>
208 <taxDiscountAmount>0</taxDiscountAmount>
209 <totalAmount>20.00</totalAmount>
210 <totalHandlingAmount>9.00</totalHandlingAmount>
211 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
212 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
213 <totalSavingsAmount>0.00</totalSavingsAmount>
214 <totalShippingAmount>1.00</totalShippingAmount>
215 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
216 <userHostAddress>127.0.0.1</userHostAddress>
217 <warehouse>
218   <city>Beverley Hills</city>
219   <countryCode>US</countryCode>
220   <email></email>
221   <phone></phone>
222   <postalCode>90210</postalCode>
223   <street>1 Melrose</street>
224   <subdivisionCode>US-CA</subdivisionCode>
225 </warehouse>
226 <warehouseID>1</warehouseID>
227 </salesOrder>
228 <user>
229   <email>user@address.com</email>
230   <firstName>John</firstName>
231   <lastName>Doe</lastName>
232   <profile>
233     <profileProperties>
234       <Biography></Biography>
235       <Cell></Cell>
236       <City>Beverley Hills</City>
237       <Country>United States</Country>
238       <Fax></Fax>
239       <FirstName>John</FirstName>
240       <IM></IM>
241       <LastName>Doe</LastName>
242       <MiddleName></MiddleName>
243       <Photo></Photo>
244       <PostalCode>90210</PostalCode>
245       <PreferredLocale>en-US</PreferredLocale>
246       <Prefix></Prefix>
247       <Region>California</Region>
248       <Street>1 Melrose</Street>
249       <Suffix></Suffix>
250       <Telephone>111-111-1111</Telephone>
251       <TimeZone>0</TimeZone>
252       <Unit></Unit>
253       <Website></Website>
```

```
254         </profileProperties>
255     </profile>
256     <roles>
257         <role>Role1</role>
258         <role>Role2</role>
259     </roles>
260     <userHostAddress>127.0.0.1</userHostAddress>
261     <userID>1</userID>
262     <username>host</username>
263 </user>
264 </in>
265
```

# Order invoice email

Email invoices are useful for requesting payment. By default, the Storefront will send the invoice to the registered email address of the buyer.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailSender>test@example.com</generalEmailSender>
4     <generalStoreName>Revindex Storefront</generalStoreName>
5   </configuration>
6   <manageOrder>
7     <tabUrl>https://site.com/pageorder</tabUrl>
8   </manageOrder>
9   <portal>
10    <cartTabs>
11      <tab>
12        <tabID>57</tabID>
13      </tab>
14    </cartTabs>
15    <checkoutTabs>
16      <tab>
17        <tabID>61</tabID>
18      </tab>
19    </checkoutTabs>
20    <manageOrderTabs>
21      <tab>
22        <tabID>62</tabID>
23      </tab>
24    </manageOrderTabs>
25    <manageVoucherTabs>
26      <tab>
27        <tabID>174</tabID>
28      </tab>
29    </manageVoucherTabs>
30    <portalAliases>
31      <portalAlias>
32        <cultureCode></cultureCode>
33        <httpAlias>site.com</httpAlias>
34        <isPrimary>true</isPrimary>
35        <portalAliasID>1</portalAliasID>
36      </portalAlias>
37    </portalAliases>
38    <portalID>0</portalID>
39  </portal>
40  <salesOrder>
41    <billingCity>Beverly Hills</billingCity>
42    <billingCompany>Revindex</billingCompany>
43    <billingCountryCode>US</billingCountryCode>
44    <billingCountryName>United States</billingCountryName>
45    <billingEmail>text@example.com</billingEmail>
46    <billingFirstName>John</billingFirstName>
47    <billingLastName>Doe</billingLastName>
48    <billingPhone>111-111-1111</billingPhone>
49    <billingPostalCode>90210</billingPostalCode>
50    <billingStreet>1 Melrose</billingStreet>
51    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
52    <billingSubdivisionName>California</billingSubdivisionName>
53    <businessTaxNumber>GB 123456789</businessTaxNumber>
54    <couponCodes>
55      <couponCode>free2</couponCode>
56    </couponCodes>
57    <cultureCode>en-US</cultureCode>
58    <currency>
59      <currencySymbol>$</currencySymbol>
60      <isoCurrencySymbol>USD</isoCurrencySymbol>
61    </currency>
62    <currencyCultureCode>en-US</currencyCultureCode>
63    <dynamicFormResult>
64      <fields>
65        <field id="CustomName">Name1</field>
66        <field id="CustomText">MyText</field>
67        <field id="CustomColor">
68          <selected>Red</selected>
69          <selected>Blue</selected>
```

```

70     </field>
71     <field id="CustomSize">
72         <selected>XL</selected>
73     </field>
74 </fields>
75 </dynamicFormResult>
76 <exchangeRate>1.0000</exchangeRate>
77 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
78 <formattedTotalAmount>$20.00</formattedTotalAmount>
79 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
80 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
81 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
82 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
83 <formattedTotalTaxAmount></formattedTotalTaxAmount>
84 <handlingAmount>9.00</handlingAmount>
85 <handlingDiscountAmount>0</handlingDiscountAmount>
86 <orderDate>2001-01-01T12:00:00</orderDate>
87 <origin>1</origin>
88 <parentSalesOrderID></parentSalesOrderID>
89 <purchaseOrderNumber></purchaseOrderNumber>
90 <rewardsPointsQualified>0</rewardsPointsQualified>
91 <salesOrderDetails>
92     <salesOrderDetail>
93         <amount>10.0000</amount>
94         <amountWithTax>10.0000</amountWithTax>
95         <bookingStartDate></bookingStartDate>
96         <bookingStopDate></bookingStopDate>
97         <combinedAmount>10.0000</combinedAmount>
98         <combinedAmountWithTax>10.0000</combinedAmountWithTax>
99         <combinedPrice>10.0000</combinedPrice>
100        <combinedTotalAmount>10.0000</combinedTotalAmount>
101        <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
102        <discountAmount>0</discountAmount>
103        <dynamicFormResult>
104            <fields>
105                <field id="CustomURL">http://www.yahoo.com</field>
106                <field id="CustomText">MyText</field>
107                <field id="CustomColor">
108                    <selected>Red</selected>
109                    <selected>Blue</selected>
110                </field>
111                <field id="CustomSize">
112                    <selected>XL</selected>
113                </field>
114            </fields>
115        </dynamicFormResult>
116        <formattedAmount>$10.00</formattedAmount>
117        <formattedCombinedAmount>$10.00</formattedCombinedAmount>
118        <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
119        <formattedCombinedPrice>$10.00</formattedCombinedPrice>
120        <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
121        <formattedDiscountAmount>$0.00</formattedDiscountAmount>
122        <formattedPrice>$10.00</formattedPrice>
123        <formattedTotalAmount>$10.00</formattedTotalAmount>
124        <parentSalesOrderDetailID></parentSalesOrderDetailID>
125        <price>10.0000</price>
126        <productName>Good Book</productName>
127        <productVariant>
128            <basePrice>10.0000</basePrice>
129            <inventoryUnitType>1</inventoryUnitType>
130            <msrp>10.0000</msrp>
131            <name>Series 1</name>
132            <product>
133                <name>Good Book</name>
134                <summary></summary>
135            </product>
136            <sku>A100</sku>
137            <summary></summary>
138        </productVariant>
139        <productVariantExtension>
140            <data>
141                <shippingRate>1.00</shippingRate>
142            </data>
143        </productVariantExtension>
144        <productVariantName>Series 1</productVariantName>
145        <quantity>1</quantity>
146        <salesOrderDetailID>102</salesOrderDetailID>
147        <shippingStatus>3</shippingStatus>
148        <sku>A100</sku>
149        <status>1</status>
150        <totalAmount>10.0000</totalAmount>
151        <totalAmountWithTax>10.0000</totalAmountWithTax>
152    </salesOrderDetail>
153 </salesOrderDetails>
154 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
155 <salesOrderNumber>SA1000</salesOrderNumber>
156 <salesPayments>
157     <salesPayment>
158         <amount>10.0000</amount>
159         <creditCardHint>4345</creditCardHint>
160         <formattedAmount>$10.00</formattedAmount>
161         <paymentDate>2001-01-01T12:00:00</paymentDate>

```

```
162     <paymentGateway>PayPalWPP</paymentGateway>
163     <paymentHint></paymentHint>
164     <paymentMethod>3</paymentMethod>
165     <paymentMethodName>Credit card</paymentMethodName>
166     <responseCode>1</responseCode>
167     <transactionType>2</transactionType>
168     <voucherHint></voucherHint>
169 </salesPayment>
170 </salesPayments>
171 <salesPaymentStatus>1</salesPaymentStatus>
172 <seller>
173     <city>Beverley Hills</city>
174     <countryCode>US</countryCode>
175     <email>test@example.com</email>
176     <phone>111-111-1111</phone>
177     <postalCode>90210</postalCode>
178     <street>1 Melrose</street>
179     <subdivisionCode>US-CA</subdivisionCode>
180 </seller>
181 <sellerID>1</sellerID>
182 <shippingAmount>1.00</shippingAmount>
183 <shippingCity>Beverley Hills</shippingCity>
184 <shippingCompany>Revindex</shippingCompany>
185 <shippingCountryCode>US</shippingCountryCode>
186 <shippingCountryName>United States</shippingCountryName>
187 <shippingDiscountAmount>0</shippingDiscountAmount>
188 <shippingEmail>text@example.com</shippingEmail>
189 <shippingFirstName>John</shippingFirstName>
190 <shippingLastName>Doe</shippingLastName>
191 <shippingMethod>
192     <name>Ground</name>
193 </shippingMethod>
194 <shippingMethodID>2</shippingMethodID>
195 <shippingPhone>111-111-1111</shippingPhone>
196 <shippingPostalCode>90210</shippingPostalCode>
197 <shippingStatus>1</shippingStatus>
198 <shippingStreet>1 Melrose</shippingStreet>
199 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
200 <shippingSubdivisionName>California</shippingSubdivisionName>
201 <shippingTrackingCode>GH88888</shippingTrackingCode>
202 <status>2</status>
203 <subTotalAmount>10.00</subTotalAmount>
204 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
205 <taxAmount1>0.00</taxAmount1>
206 <taxAmount2>0.00</taxAmount2>
207 <taxAmount3>0.00</taxAmount3>
208 <taxAmount4>0.00</taxAmount4>
209 <taxAmount5>0.00</taxAmount5>
210 <taxDiscountAmount>0</taxDiscountAmount>
211 <totalAmount>20.00</totalAmount>
212 <totalHandlingAmount>9.00</totalHandlingAmount>
213 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
214 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
215 <totalSavingsAmount>0.00</totalSavingsAmount>
216 <totalShippingAmount>1.00</totalShippingAmount>
217 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
218 <userHostAddress>127.0.0.1</userHostAddress>
219 <warehouse>
220     <city>Beverley Hills</city>
221     <countryCode>US</countryCode>
222     <email></email>
223     <phone></phone>
224     <postalCode>90210</postalCode>
225     <street>1 Melrose</street>
226     <subdivisionCode>US-CA</subdivisionCode>
227 </warehouse>
228 <warehouseID>1</warehouseID>
229 </salesOrder>
230 <user>
231     <email>user@address.com</email>
232     <firstName>John</firstName>
233     <lastName>Doe</lastName>
234     <profile>
235         <profileProperties>
236             <Biography></Biography>
237             <Cell></Cell>
238             <City>Beverley Hills</City>
239             <Country>United States</Country>
240             <Fax></Fax>
241             <FirstName>John</FirstName>
242             <IM></IM>
243             <LastName>Doe</LastName>
244             <MiddleName></MiddleName>
245             <Photo></Photo>
246             <PostalCode>90210</PostalCode>
247             <PreferredLocale>en-US</PreferredLocale>
248             <Prefix></Prefix>
249             <Region>California</Region>
250             <Street>1 Melrose</Street>
251             <Suffix></Suffix>
252             <Telephone>111-111-1111</Telephone>
253             <TimeZone>0</TimeZone>
```

```
254         <Unit></Unit>
255         <Website></Website>
256     </profileProperties>
257 </profile>
258 <roles>
259     <role>Role1</role>
260     <role>Role2</role>
261 </roles>
262 <userHostAddress>127.0.0.1</userHostAddress>
263 <userID>1</userID>
264 <username>host</username>
265 </user>
266 </in>
267
```

# Order invoice print

Print invoice is useful for requesting payment.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailSender>test@example.com</generalEmailSender>
4     <generalStoreName>Revindex Storefront</generalStoreName>
5   </configuration>
6   <manageOrder>
7     <tabUrl>https://site.com/page</tabUrl>
8   </manageOrder>
9   <portal>
10    <cartTabs>
11      <tab>
12        <tabID>57</tabID>
13      </tab>
14    </cartTabs>
15    <checkoutTabs>
16      <tab>
17        <tabID>61</tabID>
18      </tab>
19    </checkoutTabs>
20    <manageOrderTabs>
21      <tab>
22        <tabID>62</tabID>
23      </tab>
24    </manageOrderTabs>
25    <manageVoucherTabs>
26      <tab>
27        <tabID>174</tabID>
28      </tab>
29    </manageVoucherTabs>
30    <portalAliases>
31      <portalAlias>
32        <cultureCode></cultureCode>
33        <httpAlias>site.com</httpAlias>
34        <isPrimary>true</isPrimary>
35        <portalAliasID>1</portalAliasID>
36      </portalAlias>
37    </portalAliases>
38    <portalID>0</portalID>
39  </portal>
40  <salesOrder>
41    <billingCity>Beverly Hills</billingCity>
42    <billingCompany>Revindex</billingCompany>
43    <billingCountryCode>US</billingCountryCode>
44    <billingCountryName>United States</billingCountryName>
45    <billingEmail>text@example.com</billingEmail>
46    <billingFirstName>John</billingFirstName>
47    <billingLastName>Doe</billingLastName>
48    <billingPhone>111-111-1111</billingPhone>
49    <billingPostalCode>90210</billingPostalCode>
50    <billingStreet>1 Melrose</billingStreet>
51    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
52    <billingSubdivisionName>California</billingSubdivisionName>
53    <businessTaxNumber>GB 123456789</businessTaxNumber>
54    <couponCodes>
55      <couponCode>free2</couponCode>
56    </couponCodes>
57    <cultureCode>en-US</cultureCode>
58    <currency>
59      <currencySymbol>$</currencySymbol>
60      <isoCurrencySymbol>USD</isoCurrencySymbol>
61    </currency>
62    <currencyCultureCode>en-US</currencyCultureCode>
63    <dynamicFormResult>
64      <fields>
65        <field id="CustomName">Name1</field>
66        <field id="CustomText">MyText</field>
67        <field id="CustomColor">
68          <selected>Red</selected>
69          <selected>Blue</selected>
70        </field>
71        <field id="CustomSize">
```

```

72         <selected>XL</selected>
73     </field>
74 </fields>
75 </dynamicFormResult>
76 <exchangeRate>1.0000</exchangeRate>
77 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
78 <formattedTotalAmount>$20.00</formattedTotalAmount>
79 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
80 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
81 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
82 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
83 <formattedTotalTaxAmount></formattedTotalTaxAmount>
84 <handlingAmount>9.00</handlingAmount>
85 <handlingDiscountAmount>0</handlingDiscountAmount>
86 <orderDate>2001-01-01T12:00:00</orderDate>
87 <origin>1</origin>
88 <parentSalesOrderID></parentSalesOrderID>
89 <purchaseOrderNumber></purchaseOrderNumber>
90 <rewardsPointsQualified>0</rewardsPointsQualified>
91 <salesOrderDetails>
92     <salesOrderDetail>
93         <amount>10.0000</amount>
94         <amountWithTax>10.0000</amountWithTax>
95         <bookingStartDate></bookingStartDate>
96         <bookingStopDate></bookingStopDate>
97         <combinedAmount>10.0000</combinedAmount>
98         <combinedAmountWithTax>10.0000</combinedAmountWithTax>
99         <combinedPrice>10.0000</combinedPrice>
100        <combinedTotalAmount>10.0000</combinedTotalAmount>
101        <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
102        <discountAmount>0</discountAmount>
103        <dynamicFormResult>
104            <fields>
105                <field id="CustomURL">http://www.yahoo.com</field>
106                <field id="CustomText">MyText</field>
107                <field id="CustomColor">
108                    <selected>Red</selected>
109                    <selected>Blue</selected>
110                </field>
111                <field id="CustomSize">
112                    <selected>XL</selected>
113                </field>
114            </fields>
115        </dynamicFormResult>
116        <formattedAmount>$10.00</formattedAmount>
117        <formattedCombinedAmount>$10.00</formattedCombinedAmount>
118        <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
119        <formattedCombinedPrice>$10.00</formattedCombinedPrice>
120        <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
121        <formattedDiscountAmount>$0.00</formattedDiscountAmount>
122        <formattedPrice>$10.00</formattedPrice>
123        <formattedTotalAmount>$10.00</formattedTotalAmount>
124        <parentSalesOrderDetailID></parentSalesOrderDetailID>
125        <price>10.0000</price>
126        <productName>Good Book</productName>
127        <productVariant>
128            <basePrice>10.0000</basePrice>
129            <inventoryUnitType>1</inventoryUnitType>
130            <msrp>10.0000</msrp>
131            <name>Series 1</name>
132            <product>
133                <name>Good Book</name>
134                <summary></summary>
135            </product>
136            <sku>A100</sku>
137            <summary></summary>
138        </productVariant>
139        <productVariantExtension>
140            <data>
141                <shippingRate>1.00</shippingRate>
142            </data>
143        </productVariantExtension>
144        <productVariantName>Series 1</productVariantName>
145        <quantity>1</quantity>
146        <salesOrderDetailID>102</salesOrderDetailID>
147        <shippingStatus>3</shippingStatus>
148        <sku>A100</sku>
149        <status>1</status>
150        <totalAmount>10.0000</totalAmount>
151        <totalAmountWithTax>10.0000</totalAmountWithTax>
152    </salesOrderDetail>
153 </salesOrderDetails>
154 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
155 <salesOrderNumber>SA1000</salesOrderNumber>
156 <salesPayments>
157     <salesPayment>
158         <amount>10.0000</amount>
159         <creditCardHint>4345</creditCardHint>
160         <paymentDate>2001-01-01T12:00:00</paymentDate>
161         <paymentGateway>PayPalWPP</paymentGateway>
162         <paymentHint></paymentHint>
163         <paymentMethod>3</paymentMethod>

```



```

164     <paymentMethodName>Credit card</paymentMethodName>
165     <responseCode>1</responseCode>
166     <transactionType>2</transactionType>
167     <voucherHint></voucherHint>
168 </salesPayment>
169 </salesPayments>
170 <salesPaymentStatus>1</salesPaymentStatus>
171 <seller>
172     <city>Beverley Hills</city>
173     <countryCode>US</countryCode>
174     <email>test@example.com</email>
175     <phone>111-111-1111</phone>
176     <postalCode>90210</postalCode>
177     <street>1 Melrose</street>
178     <subdivisionCode>US-CA</subdivisionCode>
179 </seller>
180 <sellerID>1</sellerID>
181 <shippingAmount>1.00</shippingAmount>
182 <shippingCity>Beverley Hills</shippingCity>
183 <shippingCompany>Revindex</shippingCompany>
184 <shippingCountryCode>US</shippingCountryCode>
185 <shippingCountryName>United States</shippingCountryName>
186 <shippingDiscountAmount>0</shippingDiscountAmount>
187 <shippingEmail>text@example.com</shippingEmail>
188 <shippingFirstName>John</shippingFirstName>
189 <shippingLastName>Doe</shippingLastName>
190 <shippingMethod>
191     <name>Ground</name>
192 </shippingMethod>
193 <shippingMethodID>2</shippingMethodID>
194 <shippingPhone>111-111-1111</shippingPhone>
195 <shippingPostalCode>90210</shippingPostalCode>
196 <shippingStatus>1</shippingStatus>
197 <shippingStreet>1 Melrose</shippingStreet>
198 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
199 <shippingSubdivisionName>California</shippingSubdivisionName>
200 <shippingTrackingCode>GH88888</shippingTrackingCode>
201 <status>2</status>
202 <subTotalAmount>10.00</subTotalAmount>
203 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
204 <taxAmount1>0.00</taxAmount1>
205 <taxAmount2>0.00</taxAmount2>
206 <taxAmount3>0.00</taxAmount3>
207 <taxAmount4>0.00</taxAmount4>
208 <taxAmount5>0.00</taxAmount5>
209 <taxDiscountAmount>0</taxDiscountAmount>
210 <totalAmount>20.00</totalAmount>
211 <totalHandlingAmount>9.00</totalHandlingAmount>
212 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
213 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
214 <totalSavingsAmount>0.00</totalSavingsAmount>
215 <totalShippingAmount>1.00</totalShippingAmount>
216 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
217 <userHostAddress>127.0.0.1</userHostAddress>
218 <warehouse>
219     <city>Beverley Hills</city>
220     <countryCode>US</countryCode>
221     <email></email>
222     <phone></phone>
223     <postalCode>90210</postalCode>
224     <street>1 Melrose</street>
225     <subdivisionCode>US-CA</subdivisionCode>
226 </warehouse>
227 <warehouseID>1</warehouseID>
228 </salesOrder>
229 <user>
230     <email>user@address.com</email>
231     <firstName>John</firstName>
232     <lastName>Doe</lastName>
233     <profile>
234         <profileProperties>
235             <Biography></Biography>
236             <Cell></Cell>
237             <City>Beverley Hills</City>
238             <Country>United States</Country>
239             <Fax></Fax>
240             <FirstName>John</FirstName>
241             <IM></IM>
242             <LastName>Doe</LastName>
243             <MiddleName></MiddleName>
244             <Photo></Photo>
245             <PostalCode>90210</PostalCode>
246             <PreferredLocale>en-US</PreferredLocale>
247             <Prefix></Prefix>
248             <Region>California</Region>
249             <Street>1 Melrose</Street>
250             <Suffix></Suffix>
251             <Telephone>111-111-1111</Telephone>
252             <TimeZone>0</TimeZone>
253             <Unit></Unit>
254             <Website></Website>
255         </profileProperties>

```

```
256     </profile>
257     <roles>
258         <role>Role1</role>
259         <role>Role2</role>
260     </roles>
261     <userHostAddress>127.0.0.1</userHostAddress>
262     <userID>1</userID>
263     <username>host</username>
264 </user>
265 </in>
266
```

## Order quote email

This email is sent to the customer after requesting for a quote. By default, the Storefront will send the email to the registered email address of the buyer.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailSender>test@example.com</generalEmailSender>
4     <generalStoreName>Revindex Storefront</generalStoreName>
5   </configuration>
6   <manageOrder>
7     <tabUrl>https://site.com/pageorder</tabUrl>
8   </manageOrder>
9   <portal>
10    <cartTabs>
11      <tab>
12        <tabID>57</tabID>
13      </tab>
14    </cartTabs>
15    <checkoutTabs>
16      <tab>
17        <tabID>61</tabID>
18      </tab>
19    </checkoutTabs>
20    <manageOrderTabs>
21      <tab>
22        <tabID>62</tabID>
23      </tab>
24    </manageOrderTabs>
25    <manageVoucherTabs>
26      <tab>
27        <tabID>174</tabID>
28      </tab>
29    </manageVoucherTabs>
30    <portalAliases>
31      <portalAlias>
32        <cultureCode></cultureCode>
33        <httpAlias>site.com</httpAlias>
34        <isPrimary>true</isPrimary>
35        <portalAliasID>1</portalAliasID>
36      </portalAlias>
37    </portalAliases>
38    <portalID>0</portalID>
39  </portal>
40  <salesOrder>
41    <billingCity>Beverly Hills</billingCity>
42    <billingCompany>Revindex</billingCompany>
43    <billingCountryCode>US</billingCountryCode>
44    <billingCountryName>United States</billingCountryName>
45    <billingEmail>text@example.com</billingEmail>
46    <billingFirstName>John</billingFirstName>
47    <billingLastName>Doe</billingLastName>
48    <billingPhone>111-111-1111</billingPhone>
49    <billingPostalCode>90210</billingPostalCode>
50    <billingStreet>1 Melrose</billingStreet>
51    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
52    <billingSubdivisionName>California</billingSubdivisionName>
53    <businessTaxNumber>GB 123456789</businessTaxNumber>
54    <couponCodes>
55      <couponCode>free2</couponCode>
56    </couponCodes>
57    <cultureCode>en-US</cultureCode>
58    <currency>
59      <currencySymbol>$</currencySymbol>
60      <isoCurrencySymbol>USD</isoCurrencySymbol>
61    </currency>
62    <currencyCultureCode>en-US</currencyCultureCode>
63    <dynamicFormResult>
64      <fields>
65        <field id="CustomName">Name1</field>
66        <field id="CustomText">MyText</field>
67        <field id="CustomColor">
68          <selected>Red</selected>
69          <selected>Blue</selected>
```

```

70     </field>
71     <field id="CustomSize">
72         <selected>XL</selected>
73     </field>
74 </fields>
75 </dynamicFormResult>
76 <exchangeRate>1.0000</exchangeRate>
77 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
78 <formattedTotalAmount>$20.00</formattedTotalAmount>
79 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
80 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
81 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
82 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
83 <formattedTotalTaxAmount></formattedTotalTaxAmount>
84 <handlingAmount>9.00</handlingAmount>
85 <handlingDiscountAmount>0</handlingDiscountAmount>
86 <orderDate>2001-01-01T12:00:00</orderDate>
87 <origin>1</origin>
88 <parentSalesOrderID></parentSalesOrderID>
89 <purchaseOrderNumber></purchaseOrderNumber>
90 <rewardsPointsQualified>0</rewardsPointsQualified>
91 <salesOrderDetails>
92     <salesOrderDetail>
93         <amount>10.0000</amount>
94         <amountWithTax>10.0000</amountWithTax>
95         <bookingStartDate></bookingStartDate>
96         <bookingStopDate></bookingStopDate>
97         <combinedAmount>10.0000</combinedAmount>
98         <combinedAmountWithTax>10.0000</combinedAmountWithTax>
99         <combinedPrice>10.0000</combinedPrice>
100        <combinedTotalAmount>10.0000</combinedTotalAmount>
101        <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
102        <discountAmount>0</discountAmount>
103        <dynamicFormResult>
104            <fields>
105                <field id="CustomURL">http://www.yahoo.com</field>
106                <field id="CustomText">MyText</field>
107                <field id="CustomColor">
108                    <selected>Red</selected>
109                    <selected>Blue</selected>
110                </field>
111                <field id="CustomSize">
112                    <selected>XL</selected>
113                </field>
114            </fields>
115        </dynamicFormResult>
116        <formattedAmount>$10.00</formattedAmount>
117        <formattedCombinedAmount>$10.00</formattedCombinedAmount>
118        <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
119        <formattedCombinedPrice>$10.00</formattedCombinedPrice>
120        <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
121        <formattedDiscountAmount>$0.00</formattedDiscountAmount>
122        <formattedPrice>$10.00</formattedPrice>
123        <formattedTotalAmount>$10.00</formattedTotalAmount>
124        <parentSalesOrderDetailID></parentSalesOrderDetailID>
125        <price>10.0000</price>
126        <productName>Good Book</productName>
127        <productVariant>
128            <basePrice>10.0000</basePrice>
129            <inventoryUnitType>1</inventoryUnitType>
130            <msrp>10.0000</msrp>
131            <name>Series 1</name>
132            <product>
133                <name>Good Book</name>
134                <summary></summary>
135            </product>
136            <sku>A100</sku>
137            <summary></summary>
138        </productVariant>
139        <productVariantExtension>
140            <data>
141                <shippingRate>1.00</shippingRate>
142            </data>
143        </productVariantExtension>
144        <productVariantName>Series 1</productVariantName>
145        <quantity>1</quantity>
146        <salesOrderDetailID>102</salesOrderDetailID>
147        <shippingStatus>3</shippingStatus>
148        <sku>A100</sku>
149        <status>1</status>
150        <totalAmount>10.0000</totalAmount>
151        <totalAmountWithTax>10.0000</totalAmountWithTax>
152    </salesOrderDetail>
153 </salesOrderDetails>
154 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
155 <salesOrderNumber>SA1000</salesOrderNumber>
156 <salesPayments>
157     <salesPayment>
158         <amount>10.0000</amount>
159         <creditCardHint>4345</creditCardHint>
160         <formattedAmount>$10.00</formattedAmount>
161         <paymentDate>2001-01-01T12:00:00</paymentDate>

```

```
162     <paymentGateway>PayPalWPP</paymentGateway>
163     <paymentHint></paymentHint>
164     <paymentMethod>3</paymentMethod>
165     <paymentMethodName>Credit card</paymentMethodName>
166     <responseCode>1</responseCode>
167     <transactionType>2</transactionType>
168     <voucherHint></voucherHint>
169 </salesPayment>
170 </salesPayments>
171 <salesPaymentStatus>1</salesPaymentStatus>
172 <seller>
173     <city>Beverley Hills</city>
174     <countryCode>US</countryCode>
175     <email>test@example.com</email>
176     <phone>111-111-1111</phone>
177     <postalCode>90210</postalCode>
178     <street>1 Melrose</street>
179     <subdivisionCode>US-CA</subdivisionCode>
180 </seller>
181 <sellerID>1</sellerID>
182 <shippingAmount>1.00</shippingAmount>
183 <shippingCity>Beverley Hills</shippingCity>
184 <shippingCompany>Revindex</shippingCompany>
185 <shippingCountryCode>US</shippingCountryCode>
186 <shippingCountryName>United States</shippingCountryName>
187 <shippingDiscountAmount>0</shippingDiscountAmount>
188 <shippingEmail>text@example.com</shippingEmail>
189 <shippingFirstName>John</shippingFirstName>
190 <shippingLastName>Doe</shippingLastName>
191 <shippingMethod>
192     <name>Ground</name>
193 </shippingMethod>
194 <shippingMethodID>2</shippingMethodID>
195 <shippingPhone>111-111-1111</shippingPhone>
196 <shippingPostalCode>90210</shippingPostalCode>
197 <shippingStatus>1</shippingStatus>
198 <shippingStreet>1 Melrose</shippingStreet>
199 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
200 <shippingSubdivisionName>California</shippingSubdivisionName>
201 <shippingTrackingCode>129343243</shippingTrackingCode>
202 <status>2</status>
203 <subTotalAmount>10.00</subTotalAmount>
204 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
205 <taxAmount1>0.00</taxAmount1>
206 <taxAmount2>0.00</taxAmount2>
207 <taxAmount3>0.00</taxAmount3>
208 <taxAmount4>0.00</taxAmount4>
209 <taxAmount5>0.00</taxAmount5>
210 <taxDiscountAmount>0</taxDiscountAmount>
211 <totalAmount>20.00</totalAmount>
212 <totalHandlingAmount>9.00</totalHandlingAmount>
213 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
214 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
215 <totalSavingsAmount>0.00</totalSavingsAmount>
216 <totalShippingAmount>1.00</totalShippingAmount>
217 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
218 <userHostAddress>127.0.0.1</userHostAddress>
219 <warehouse>
220     <city>Beverley Hills</city>
221     <countryCode>US</countryCode>
222     <email></email>
223     <phone></phone>
224     <postalCode>90210</postalCode>
225     <street>1 Melrose</street>
226     <subdivisionCode>US-CA</subdivisionCode>
227 </warehouse>
228 <warehouseID>1</warehouseID>
229 </salesOrder>
230 <user>
231     <email>user@address.com</email>
232     <firstName>John</firstName>
233     <lastName>Doe</lastName>
234     <profile>
235         <profileProperties>
236             <Biography></Biography>
237             <Cell></Cell>
238             <City>Beverley Hills</City>
239             <Country>United States</Country>
240             <Fax></Fax>
241             <FirstName>John</FirstName>
242             <IM></IM>
243             <LastName>Doe</LastName>
244             <MiddleName></MiddleName>
245             <Photo></Photo>
246             <PostalCode>90210</PostalCode>
247             <PreferredLocale>en-US</PreferredLocale>
248             <Prefix></Prefix>
249             <Region>California</Region>
250             <Street>1 Melrose</Street>
251             <Suffix></Suffix>
252             <Telephone>111-111-1111</Telephone>
253             <TimeZone>0</TimeZone>
```

```
254         <Unit></Unit>
255         <Website></Website>
256     </profileProperties>
257 </profile>
258 <roles>
259     <role>Role1</role>
260     <role>Role2</role>
261 </roles>
262 <userHostAddress>127.0.0.1</userHostAddress>
263 <userID>1</userID>
264 <username>host</username>
265 </user>
266 </in>
267
```

# Order quote print

This templated is printable after requesting for a quote.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailSender>test@example.com</generalEmailSender>
4     <generalStoreName>Revindex Storefront</generalStoreName>
5   </configuration>
6   <manageOrder>
7     <tabUrl>https://site.com/page</tabUrl>
8   </manageOrder>
9   <portal>
10    <cartTabs>
11      <tab>
12        <tabID>57</tabID>
13      </tab>
14    </cartTabs>
15    <checkoutTabs>
16      <tab>
17        <tabID>61</tabID>
18      </tab>
19    </checkoutTabs>
20    <manageOrderTabs>
21      <tab>
22        <tabID>62</tabID>
23      </tab>
24    </manageOrderTabs>
25    <manageVoucherTabs>
26      <tab>
27        <tabID>174</tabID>
28      </tab>
29    </manageVoucherTabs>
30    <portalAliases>
31      <portalAlias>
32        <cultureCode></cultureCode>
33        <httpAlias>site.com</httpAlias>
34        <isPrimary>true</isPrimary>
35        <portalAliasID>1</portalAliasID>
36      </portalAlias>
37    </portalAliases>
38    <portalID>0</portalID>
39  </portal>
40  <salesOrder>
41    <billingCity>Beverley Hills</billingCity>
42    <billingCompany>Revindex</billingCompany>
43    <billingCountryCode>US</billingCountryCode>
44    <billingCountryName>United States</billingCountryName>
45    <billingEmail>text@example.com</billingEmail>
46    <billingFirstName>John</billingFirstName>
47    <billingLastName>Doe</billingLastName>
48    <billingPhone>111-111-1111</billingPhone>
49    <billingPostalCode>90210</billingPostalCode>
50    <billingStreet>1 Melrose</billingStreet>
51    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
52    <billingSubdivisionName>California</billingSubdivisionName>
53    <businessTaxNumber>GB 123456789</businessTaxNumber>
54    <couponCodes>
55      <couponCode>free2</couponCode>
56    </couponCodes>
57    <cultureCode>en-US</cultureCode>
58    <currency>
59      <currencySymbol>$</currencySymbol>
60      <isoCurrencySymbol>USD</isoCurrencySymbol>
61    </currency>
62    <currencyCultureCode>en-US</currencyCultureCode>
63    <dynamicFormResult>
64      <fields>
65        <field id="CustomName">Name1</field>
66        <field id="CustomText">MyText</field>
67        <field id="CustomColor">
68          <selected>Red</selected>
69          <selected>Blue</selected>
70        </field>
71        <field id="CustomSize">
```

```

72         <selected>XL</selected>
73     </field>
74 </fields>
75 </dynamicFormResult>
76 <exchangeRate>1.0000</exchangeRate>
77 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
78 <formattedTotalAmount>$20.00</formattedTotalAmount>
79 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
80 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
81 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
82 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
83 <formattedTotalTaxAmount></formattedTotalTaxAmount>
84 <handlingAmount>9.00</handlingAmount>
85 <handlingDiscountAmount>0</handlingDiscountAmount>
86 <orderDate>2001-01-01T12:00:00</orderDate>
87 <origin>1</origin>
88 <parentSalesOrderID></parentSalesOrderID>
89 <purchaseOrderNumber></purchaseOrderNumber>
90 <rewardsPointsQualified>0</rewardsPointsQualified>
91 <salesOrderDetails>
92     <salesOrderDetail>
93         <amount>10.0000</amount>
94         <amountWithTax>10.0000</amountWithTax>
95         <bookingStartDate></bookingStartDate>
96         <bookingStopDate></bookingStopDate>
97         <combinedAmount>10.0000</combinedAmount>
98         <combinedAmountWithTax>10.0000</combinedAmountWithTax>
99         <combinedPrice>10.0000</combinedPrice>
100        <combinedTotalAmount>10.0000</combinedTotalAmount>
101        <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
102        <discountAmount>0</discountAmount>
103        <dynamicFormResult>
104            <fields>
105                <field id="CustomURL">http://www.yahoo.com</field>
106                <field id="CustomText">MyText</field>
107                <field id="CustomColor">
108                    <selected>Red</selected>
109                    <selected>Blue</selected>
110                </field>
111                <field id="CustomSize">
112                    <selected>XL</selected>
113                </field>
114            </fields>
115        </dynamicFormResult>
116        <formattedAmount>$10.00</formattedAmount>
117        <formattedCombinedAmount>$10.00</formattedCombinedAmount>
118        <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
119        <formattedCombinedPrice>$10.00</formattedCombinedPrice>
120        <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
121        <formattedDiscountAmount>$0.00</formattedDiscountAmount>
122        <formattedPrice>$10.00</formattedPrice>
123        <formattedTotalAmount>$10.00</formattedTotalAmount>
124        <parentSalesOrderDetailID></parentSalesOrderDetailID>
125        <price>10.0000</price>
126        <productName>Good Book</productName>
127        <productVariant>
128            <basePrice>10.0000</basePrice>
129            <inventoryUnitType>1</inventoryUnitType>
130            <msrp>10.0000</msrp>
131            <name>Series 1</name>
132            <product>
133                <name>Good Book</name>
134                <summary></summary>
135            </product>
136            <sku>A100</sku>
137            <summary></summary>
138        </productVariant>
139        <productVariantExtension>
140            <data>
141                <shippingRate>1.00</shippingRate>
142            </data>
143        </productVariantExtension>
144        <productVariantName>Series 1</productVariantName>
145        <quantity>1</quantity>
146        <salesOrderDetailID>102</salesOrderDetailID>
147        <shippingStatus>3</shippingStatus>
148        <sku>A100</sku>
149        <status>1</status>
150        <totalAmount>10.0000</totalAmount>
151        <totalAmountWithTax>10.0000</totalAmountWithTax>
152    </salesOrderDetail>
153 </salesOrderDetails>
154 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
155 <salesOrderNumber>SA1000</salesOrderNumber>
156 <salesPayments>
157     <salesPayment>
158         <amount>10.0000</amount>
159         <creditCardHint>4345</creditCardHint>
160         <paymentDate>2001-01-01T12:00:00</paymentDate>
161         <paymentGateway>PayPalWPP</paymentGateway>
162         <paymentHint></paymentHint>
163         <paymentMethod>3</paymentMethod>

```



```

164     <paymentMethodName>Credit card</paymentMethodName>
165     <responseCode>1</responseCode>
166     <transactionType>2</transactionType>
167     <voucherHint></voucherHint>
168 </salesPayment>
169 </salesPayments>
170 <salesPaymentStatus>1</salesPaymentStatus>
171 <seller>
172     <city>Beverley Hills</city>
173     <countryCode>US</countryCode>
174     <email>test@example.com</email>
175     <phone>111-111-1111</phone>
176     <postalCode>90210</postalCode>
177     <street>1 Melrose</street>
178     <subdivisionCode>US-CA</subdivisionCode>
179 </seller>
180 <sellerID>1</sellerID>
181 <shippingAmount>1.00</shippingAmount>
182 <shippingCity>Beverley Hills</shippingCity>
183 <shippingCompany>Revindex</shippingCompany>
184 <shippingCountryCode>US</shippingCountryCode>
185 <shippingCountryName>United States</shippingCountryName>
186 <shippingDiscountAmount>0</shippingDiscountAmount>
187 <shippingEmail>text@example.com</shippingEmail>
188 <shippingFirstName>John</shippingFirstName>
189 <shippingLastName>Doe</shippingLastName>
190 <shippingMethod>
191     <name>Ground</name>
192 </shippingMethod>
193 <shippingMethodID>2</shippingMethodID>
194 <shippingPhone>111-111-1111</shippingPhone>
195 <shippingPostalCode>90210</shippingPostalCode>
196 <shippingStatus>1</shippingStatus>
197 <shippingStreet>1 Melrose</shippingStreet>
198 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
199 <shippingSubdivisionName>California</shippingSubdivisionName>
200 <shippingTrackingCode>GH88888</shippingTrackingCode>
201 <status>2</status>
202 <subTotalAmount>10.00</subTotalAmount>
203 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
204 <taxAmount1>0.00</taxAmount1>
205 <taxAmount2>0.00</taxAmount2>
206 <taxAmount3>0.00</taxAmount3>
207 <taxAmount4>0.00</taxAmount4>
208 <taxAmount5>0.00</taxAmount5>
209 <taxDiscountAmount>0</taxDiscountAmount>
210 <totalAmount>20.00</totalAmount>
211 <totalHandlingAmount>9.00</totalHandlingAmount>
212 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
213 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
214 <totalSavingsAmount>0.00</totalSavingsAmount>
215 <totalShippingAmount>1.00</totalShippingAmount>
216 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
217 <userHostAddress>127.0.0.1</userHostAddress>
218 <warehouse>
219     <city>Beverley Hills</city>
220     <countryCode>US</countryCode>
221     <email></email>
222     <phone></phone>
223     <postalCode>90210</postalCode>
224     <street>1 Melrose</street>
225     <subdivisionCode>US-CA</subdivisionCode>
226 </warehouse>
227 <warehouseID>1</warehouseID>
228 </salesOrder>
229 <user>
230     <email>user@address.com</email>
231     <firstName>John</firstName>
232     <lastName>Doe</lastName>
233     <profile>
234         <profileProperties>
235             <Biography></Biography>
236             <Cell></Cell>
237             <City>Beverley Hills</City>
238             <Country>United States</Country>
239             <Fax></Fax>
240             <FirstName>John</FirstName>
241             <IM></IM>
242             <LastName>Doe</LastName>
243             <MiddleName></MiddleName>
244             <Photo></Photo>
245             <PostalCode>90210</PostalCode>
246             <PreferredLocale>en-US</PreferredLocale>
247             <Prefix></Prefix>
248             <Region>California</Region>
249             <Street>1 Melrose</Street>
250             <Suffix></Suffix>
251             <Telephone>111-111-1111</Telephone>
252             <TimeZone>0</TimeZone>
253             <Unit></Unit>
254             <Website></Website>
255         </profileProperties>

```

```
256     </profile>
257     <roles>
258         <role>Role1</role>
259         <role>Role2</role>
260     </roles>
261     <userHostAddress>127.0.0.1</userHostAddress>
262     <userID>1</userID>
263     <username>host</username>
264 </user>
265 </in>
266
```

# Order receipt email

Email receipts are sent out whenever a new order is placed on the shopping cart. By default, the Storefront will send the receipt to the registered email address of the buyer.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailSender>test@example.com</generalEmailSender>
4     <generalStoreName>Revindex Storefront</generalStoreName>
5   </configuration>
6   <manageOrder>
7     <tabUrl>https://site.com/page</tabUrl>
8   </manageOrder>
9   <portal>
10    <cartTabs>
11      <tab>
12        <tabID>57</tabID>
13      </tab>
14    </cartTabs>
15    <checkoutTabs>
16      <tab>
17        <tabID>61</tabID>
18      </tab>
19    </checkoutTabs>
20    <manageOrderTabs>
21      <tab>
22        <tabID>62</tabID>
23      </tab>
24    </manageOrderTabs>
25    <manageVoucherTabs>
26      <tab>
27        <tabID>174</tabID>
28      </tab>
29    </manageVoucherTabs>
30    <portalAliases>
31      <portalAlias>
32        <cultureCode></cultureCode>
33        <httpAlias>site.com</httpAlias>
34        <isPrimary>true</isPrimary>
35        <portalAliasID>1</portalAliasID>
36      </portalAlias>
37    </portalAliases>
38    <portalID>0</portalID>
39  </portal>
40  <salesOrder>
41    <billingCity>Beverly Hills</billingCity>
42    <billingCompany>Revindex</billingCompany>
43    <billingCountryCode>US</billingCountryCode>
44    <billingCountryName>United States</billingCountryName>
45    <billingEmail>text@example.com</billingEmail>
46    <billingFirstName>John</billingFirstName>
47    <billingLastName>Doe</billingLastName>
48    <billingPhone>111-111-1111</billingPhone>
49    <billingPostalCode>90210</billingPostalCode>
50    <billingStreet>1 Melrose</billingStreet>
51    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
52    <billingSubdivisionName>California</billingSubdivisionName>
53    <businessTaxNumber>GB 123456789</businessTaxNumber>
54    <couponCodes>
55      <couponCode>free2</couponCode>
56    </couponCodes>
57    <cultureCode>en-US</cultureCode>
58    <currency>
59      <currencySymbol>$</currencySymbol>
60      <isoCurrencySymbol>USD</isoCurrencySymbol>
61    </currency>
62    <currencyCultureCode>en-US</currencyCultureCode>
63    <dynamicFormResult>
64      <fields>
65        <field id="CustomName">Name1</field>
66        <field id="CustomText">MyText</field>
67        <field id="CustomColor">
68          <selected>Red</selected>
69          <selected>Blue</selected>
```

```

70     </field>
71     <field id="CustomSize">
72         <selected>XL</selected>
73     </field>
74 </fields>
75 </dynamicFormResult>
76 <exchangeRate>1.0000</exchangeRate>
77 <handlingAmount>9.00</handlingAmount>
78 <handlingDiscountAmount>0</handlingDiscountAmount>
79 <orderDate>2001-01-01T12:00:00</orderDate>
80 <origin>1</origin>
81 <parentSalesOrderID></parentSalesOrderID>
82 <purchaseOrderNumber></purchaseOrderNumber>
83 <rewardsPointsQualified>0</rewardsPointsQualified>
84 <salesOrderDetails>
85     <salesOrderDetail>
86         <amount>10.0000</amount>
87         <amountWithTax>10.0000</amountWithTax>
88         <bookingStartDate></bookingStartDate>
89         <bookingStopDate></bookingStopDate>
90         <combinedAmount>10.0000</combinedAmount>
91         <combinedAmountWithTax>10.0000</combinedAmountWithTax>
92         <combinedPrice>10.0000</combinedPrice>
93         <combinedTotalAmount>10.0000</combinedTotalAmount>
94         <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
95         <discountAmount>0</discountAmount>
96     </dynamicFormResult>
97     <fields>
98         <field id="CustomURL">http://www.yahoo.com</field>
99         <field id="CustomText">MyText</field>
100        <field id="CustomColor">
101            <selected>Red</selected>
102            <selected>Blue</selected>
103        </field>
104        <field id="CustomSize">
105            <selected>XL</selected>
106        </field>
107    </fields>
108 </dynamicFormResult>
109 <parentSalesOrderDetailID></parentSalesOrderDetailID>
110 <price>10.0000</price>
111 <productName>Good Book</productName>
112 <productVariant>
113     <basePrice>10.0000</basePrice>
114     <inventoryUnitType>1</inventoryUnitType>
115     <msrp>10.0000</msrp>
116     <name>Series 1</name>
117     <product>
118         <name>Good Book</name>
119         <summary></summary>
120     </product>
121     <sku>A100</sku>
122     <summary></summary>
123 </productVariant>
124 <productVariantExtension>
125     <data>
126         <shippingRate>1.00</shippingRate>
127     </data>
128 </productVariantExtension>
129 <productVariantName>Series 1</productVariantName>
130 <quantity>1</quantity>
131 <salesOrderDetailID>102</salesOrderDetailID>
132 <shippingStatus>3</shippingStatus>
133 <sku>A100</sku>
134 <status>1</status>
135 <totalAmount>10.0000</totalAmount>
136 <totalAmountWithTax>10.0000</totalAmountWithTax>
137 </salesOrderDetail>
138 </salesOrderDetails>
139 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
140 <salesOrderNumber>SA1000</salesOrderNumber>
141 <salesPayments>
142     <salesPayment>
143         <amount>10.0000</amount>
144         <creditCardHint>4345</creditCardHint>
145         <formattedAmount>$10.00</formattedAmount>
146         <paymentDate>2001-01-01T12:00:00</paymentDate>
147         <paymentGateway>PayPalWPP</paymentGateway>
148         <paymentHint></paymentHint>
149         <paymentMethod>3</paymentMethod>
150         <paymentMethodName>Credit card</paymentMethodName>
151         <responseCode>1</responseCode>
152         <transactionType>2</transactionType>
153         <voucherHint></voucherHint>
154     </salesPayment>
155 </salesPayments>
156 <salesPaymentStatus>1</salesPaymentStatus>
157 <seller>
158     <city>Beverly Hills</city>
159     <countryCode>US</countryCode>
160     <email>test@example.com</email>
161     <phone>111-111-1111</phone>

```

```

162     <postalCode>90210</postalCode>
163     <street>1 Melrose</street>
164     <subdivisionCode>US-CA</subdivisionCode>
165 </seller>
166 <sellerID>1</sellerID>
167 <shippingAmount>1.00</shippingAmount>
168 <shippingCity>Beverley Hills</shippingCity>
169 <shippingCompany>Revindex</shippingCompany>
170 <shippingCountryCode>US</shippingCountryCode>
171 <shippingCountryName>United States</shippingCountryName>
172 <shippingDiscountAmount>0</shippingDiscountAmount>
173 <shippingEmail>text@example.com</shippingEmail>
174 <shippingFirstName>John</shippingFirstName>
175 <shippingLastName>Doe</shippingLastName>
176 <shippingMethod>
177     <name>Ground</name>
178 </shippingMethod>
179 <shippingMethodID>2</shippingMethodID>
180 <shippingPhone>111-111-1111</shippingPhone>
181 <shippingPostalCode>90210</shippingPostalCode>
182 <shippingStatus>1</shippingStatus>
183 <shippingStreet>1 Melrose</shippingStreet>
184 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
185 <shippingSubdivisionName>California</shippingSubdivisionName>
186 <shippingTrackingCode>GH88888</shippingTrackingCode>
187 <status>2</status>
188 <subTotalAmount>10.00</subTotalAmount>
189 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
190 <taxAmount1>0.00</taxAmount1>
191 <taxAmount2>0.00</taxAmount2>
192 <taxAmount3>0.00</taxAmount3>
193 <taxAmount4>0.00</taxAmount4>
194 <taxAmount5>0.00</taxAmount5>
195 <taxDiscountAmount>0</taxDiscountAmount>
196 <totalAmount>20.00</totalAmount>
197 <totalHandlingAmount>9.00</totalHandlingAmount>
198 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
199 <totalShippingAmount>1.00</totalShippingAmount>
200 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
201 <userHostAddress>127.0.0.1</userHostAddress>
202 <warehouse>
203     <city>Beverley Hills</city>
204     <countryCode>US</countryCode>
205     <email></email>
206     <phone></phone>
207     <postalCode>90210</postalCode>
208     <street>1 Melrose</street>
209     <subdivisionCode>US-CA</subdivisionCode>
210 </warehouse>
211 <warehouseID>1</warehouseID>
212 </salesOrder>
213 <user>
214     <email>user@address.com</email>
215     <firstName>John</firstName>
216     <lastName>Doe</lastName>
217     <profile>
218         <profileProperties>
219             <Biography></Biography>
220             <Cell></Cell>
221             <City>Beverley Hills</City>
222             <Country>United States</Country>
223             <Fax></Fax>
224             <FirstName>John</FirstName>
225             <IM></IM>
226             <LastName>Doe</LastName>
227             <MiddleName></MiddleName>
228             <Photo></Photo>
229             <PostalCode>90210</PostalCode>
230             <PreferredLocale>en-US</PreferredLocale>
231             <Prefix></Prefix>
232             <Region>California</Region>
233             <Street>1 Melrose</Street>
234             <Suffix></Suffix>
235             <Telephone>111-111-1111</Telephone>
236             <TimeZone>0</TimeZone>
237             <Unit></Unit>
238             <Website></Website>
239         </profileProperties>
240     </profile>
241     <roles>
242         <role>Role1</role>
243         <role>Role2</role>
244     </roles>
245     <userHostAddress>127.0.0.1</userHostAddress>
246     <userID>1</userID>
247     <username>host</username>
248 </user>
249 </in>

```



# Order receipt print

The Basic template rule can accept XSL tokens (<http://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailSender>test@example.com</generalEmailSender>
4     <generalStoreName>Revindex Storefront</generalStoreName>
5   </configuration>
6   <manageOrder>
7     <tabUrl>https://site.com/page</tabUrl>
8   </manageOrder>
9   <portal>
10    <cartTabs>
11      <tab>
12        <tabID>57</tabID>
13      </tab>
14    </cartTabs>
15    <checkoutTabs>
16      <tab>
17        <tabID>61</tabID>
18      </tab>
19    </checkoutTabs>
20    <manageOrderTabs>
21      <tab>
22        <tabID>62</tabID>
23      </tab>
24    </manageOrderTabs>
25    <manageVoucherTabs>
26      <tab>
27        <tabID>174</tabID>
28      </tab>
29    </manageVoucherTabs>
30    <portalAliases>
31      <portalAlias>
32        <cultureCode></cultureCode>
33        <httpAlias>site.com</httpAlias>
34        <isPrimary>true</isPrimary>
35        <portalAliasID>1</portalAliasID>
36      </portalAlias>
37    </portalAliases>
38    <portalID>0</portalID>
39  </portal>
40  <salesOrder>
41    <billingCity>Beverly Hills</billingCity>
42    <billingCompany>Revindex</billingCompany>
43    <billingCountryCode>US</billingCountryCode>
44    <billingCountryName>United States</billingCountryName>
45    <billingEmail>text@example.com</billingEmail>
46    <billingFirstName>John</billingFirstName>
47    <billingLastName>Doe</billingLastName>
48    <billingPhone>111-111-1111</billingPhone>
49    <billingPostalCode>90210</billingPostalCode>
50    <billingStreet>1 Melrose</billingStreet>
51    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
52    <billingSubdivisionName>California</billingSubdivisionName>
53    <businessTaxNumber>GB 123456789</businessTaxNumber>
54    <couponCodes>
55      <couponCode>free2</couponCode>
56    </couponCodes>
57    <cultureCode>en-US</cultureCode>
58    <currency>
59      <currencySymbol>$</currencySymbol>
60      <isoCurrencySymbol>USD</isoCurrencySymbol>
61    </currency>
62    <currencyCultureCode>en-US</currencyCultureCode>
63    <dynamicFormResult>
64      <fields>
65        <field id="CustomName">Name1</field>
66        <field id="CustomText">MyText</field>
67        <field id="CustomColor">
68          <selected>Red</selected>
69          <selected>Blue</selected>
70        </field>
71        <field id="CustomSize">
72          <selected>XL</selected>
73        </field>
74      </fields>
```

```

75 </dynamicFormResult>
76 <exchangeRate>1.0000</exchangeRate>
77 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
78 <formattedTotalAmount>$20.00</formattedTotalAmount>
79 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
80 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
81 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
82 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
83 <formattedTotalTaxAmount></formattedTotalTaxAmount>
84 <handlingAmount>9.00</handlingAmount>
85 <handlingDiscountAmount>0</handlingDiscountAmount>
86 <orderDate>2001-01-01T12:00:00</orderDate>
87 <origin>1</origin>
88 <parentSalesOrderID></parentSalesOrderID>
89 <purchaseOrderNumber></purchaseOrderNumber>
90 <rewardsPointsQualified>0</rewardsPointsQualified>
91 <salesOrderDetails>
92   <salesOrderDetail>
93     <amount>10.0000</amount>
94     <amountWithTax>10.0000</amountWithTax>
95     <bookingStartDate></bookingStartDate>
96     <bookingStopDate></bookingStopDate>
97     <combinedAmount>10.0000</combinedAmount>
98     <combinedAmountWithTax>10.0000</combinedAmountWithTax>
99     <combinedPrice>10.0000</combinedPrice>
100    <combinedTotalAmount>10.0000</combinedTotalAmount>
101    <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
102    <discountAmount>0</discountAmount>
103    <dynamicFormResult>
104      <fields>
105        <field id="CustomURL">http://www.yahoo.com</field>
106        <field id="CustomText">MyText</field>
107        <field id="CustomColor">
108          <selected>Red</selected>
109          <selected>Blue</selected>
110        </field>
111        <field id="CustomSize">
112          <selected>XL</selected>
113        </field>
114      </fields>
115    </dynamicFormResult>
116    <formattedAmount>$10.00</formattedAmount>
117    <formattedCombinedAmount>$10.00</formattedCombinedAmount>
118    <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
119    <formattedCombinedPrice>$10.00</formattedCombinedPrice>
120    <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
121    <formattedDiscountAmount>$0.00</formattedDiscountAmount>
122    <formattedPrice>$10.00</formattedPrice>
123    <formattedTotalAmount>$10.00</formattedTotalAmount>
124    <parentSalesOrderDetailID></parentSalesOrderDetailID>
125    <price>10.0000</price>
126    <productName>Good Book</productName>
127    <productVariant>
128      <basePrice>10.0000</basePrice>
129      <inventoryUnitType>1</inventoryUnitType>
130      <msrp>10.0000</msrp>
131      <name>Series 1</name>
132      <product>
133        <name>Good Book</name>
134        <summary></summary>
135      </product>
136      <sku>A100</sku>
137      <summary></summary>
138    </productVariant>
139    <productVariantExtension>
140      <data>
141        <shippingRate>1.00</shippingRate>
142      </data>
143    </productVariantExtension>
144    <productVariantName>Series 1</productVariantName>
145    <quantity>1</quantity>
146    <salesOrderDetailID>102</salesOrderDetailID>
147    <shippingStatus>3</shippingStatus>
148    <sku>A100</sku>
149    <status>1</status>
150    <totalAmount>10.0000</totalAmount>
151    <totalAmountWithTax>10.0000</totalAmountWithTax>
152  </salesOrderDetail>
153 </salesOrderDetails>
154 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
155 <salesOrderNumber>SA1000</salesOrderNumber>
156 <salesPayments>
157   <salesPayment>
158     <amount>10.0000</amount>
159     <creditCardHint>4345</creditCardHint>
160     <paymentDate>2001-01-01T12:00:00</paymentDate>
161     <paymentGateway>PayPalWPP</paymentGateway>
162     <paymentHint></paymentHint>
163     <paymentMethod>3</paymentMethod>
164     <paymentMethodName>Credit card</paymentMethodName>
165     <responseCode>1</responseCode>
166     <transactionType>2</transactionType>

```



```
167     <voucherHint></voucherHint>
168   </salesPayment>
169 </salesPayments>
170 <salesPaymentStatus>1</salesPaymentStatus>
171 <seller>
172   <city>Beverley Hills</city>
173   <countryCode>US</countryCode>
174   <email>test@example.com</email>
175   <phone>111-111-1111</phone>
176   <postalCode>90210</postalCode>
177   <street>1 Melrose</street>
178   <subdivisionCode>US-CA</subdivisionCode>
179 </seller>
180 <sellerID>1</sellerID>
181 <shippingAmount>1.00</shippingAmount>
182 <shippingCity>Beverley Hills</shippingCity>
183 <shippingCompany>Revindex</shippingCompany>
184 <shippingCountryCode>US</shippingCountryCode>
185 <shippingCountryName>United States</shippingCountryName>
186 <shippingDiscountAmount>0</shippingDiscountAmount>
187 <shippingEmail>text@example.com</shippingEmail>
188 <shippingFirstName>John</shippingFirstName>
189 <shippingLastName>Doe</shippingLastName>
190 <shippingMethod>
191   <name>Ground</name>
192 </shippingMethod>
193 <shippingMethodID>2</shippingMethodID>
194 <shippingPhone>111-111-1111</shippingPhone>
195 <shippingPostalCode>90210</shippingPostalCode>
196 <shippingStatus>1</shippingStatus>
197 <shippingStreet>1 Melrose</shippingStreet>
198 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
199 <shippingSubdivisionName>California</shippingSubdivisionName>
200 <shippingTrackingCode>GH88888</shippingTrackingCode>
201 <status>2</status>
202 <subTotalAmount>10.00</subTotalAmount>
203 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
204 <taxAmount1>0.00</taxAmount1>
205 <taxAmount2>0.00</taxAmount2>
206 <taxAmount3>0.00</taxAmount3>
207 <taxAmount4>0.00</taxAmount4>
208 <taxAmount5>0.00</taxAmount5>
209 <taxDiscountAmount>0</taxDiscountAmount>
210 <totalAmount>20.00</totalAmount>
211 <totalHandlingAmount>9.00</totalHandlingAmount>
212 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
213 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
214 <totalSavingsAmount>0.00</totalSavingsAmount>
215 <totalShippingAmount>1.00</totalShippingAmount>
216 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
217 <userHostAddress>127.0.0.1</userHostAddress>
218 <warehouse>
219   <city>Beverley Hills</city>
220   <countryCode>US</countryCode>
221   <email></email>
222   <phone></phone>
223   <postalCode>90210</postalCode>
224   <street>1 Melrose</street>
225   <subdivisionCode>US-CA</subdivisionCode>
226 </warehouse>
227 <warehouseID>1</warehouseID>
228 </salesOrder>
229 <user>
230   <email>user@address.com</email>
231   <firstName>John</firstName>
232   <lastName>Doe</lastName>
233   <profile>
234     <profileProperties>
235       <Biography></Biography>
236       <Cell></Cell>
237       <City>Beverley Hills</City>
238       <Country>United States</Country>
239       <Fax></Fax>
240       <FirstName>John</FirstName>
241       <IM></IM>
242       <LastName>Doe</LastName>
243       <MiddleName></MiddleName>
244       <Photo></Photo>
245       <PostalCode>90210</PostalCode>
246       <PreferredLocale>en-US</PreferredLocale>
247       <Prefix></Prefix>
248       <Region>California</Region>
249       <Street>1 Melrose</Street>
250       <Suffix></Suffix>
251       <Telephone>111-111-1111</Telephone>
252       <TimeZone>0</TimeZone>
253       <Unit></Unit>
254       <Website></Website>
255     </profileProperties>
256   </profile>
257   <roles>
258     <role>Role1</role>
```

```
259     <role>Role2</role>
260   </roles>
261   <userHostAddress>127.0.0.1</userHostAddress>
262   <userID>1</userID>
263   <username>host</username>
264 </user>
265 </in>
```

# Order update email

This email is sent to the customer after the order statuses are updated (e.g. when order has been shipped). By default, the Storefront will send the email to the registered email address of the buyer.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailSender>test@example.com</generalEmailSender>
4     <generalStoreName>Revindex Storefront</generalStoreName>
5   </configuration>
6   <manageOrder>
7     <tabUrl>https://site.com/page</tabUrl>
8   </manageOrder>
9   <portal>
10    <cartTabs>
11      <tab>
12        <tabID>57</tabID>
13      </tab>
14    </cartTabs>
15    <checkoutTabs>
16      <tab>
17        <tabID>61</tabID>
18      </tab>
19    </checkoutTabs>
20    <manageOrderTabs>
21      <tab>
22        <tabID>62</tabID>
23      </tab>
24    </manageOrderTabs>
25    <manageVoucherTabs>
26      <tab>
27        <tabID>174</tabID>
28      </tab>
29    </manageVoucherTabs>
30    <portalAliases>
31      <portalAlias>
32        <cultureCode></cultureCode>
33        <httpAlias>site.com</httpAlias>
34        <isPrimary>true</isPrimary>
35        <portalAliasID>1</portalAliasID>
36      </portalAlias>
37    </portalAliases>
38    <portalID>0</portalID>
39  </portal>
40  <salesOrder>
41    <billingCity>Beverly Hills</billingCity>
42    <billingCompany>Revindex</billingCompany>
43    <billingCountryCode>US</billingCountryCode>
44    <billingCountryName>United States</billingCountryName>
45    <billingEmail>text@example.com</billingEmail>
46    <billingFirstName>John</billingFirstName>
47    <billingLastName>Doe</billingLastName>
48    <billingPhone>111-111-1111</billingPhone>
49    <billingPostalCode>90210</billingPostalCode>
50    <billingStreet>1 Melrose</billingStreet>
51    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
52    <billingSubdivisionName>California</billingSubdivisionName>
53    <businessTaxNumber>GB 123456789</businessTaxNumber>
54    <couponCodes>
55      <couponCode>free2</couponCode>
56    </couponCodes>
57    <cultureCode>en-US</cultureCode>
58    <currency>
59      <currencySymbol>$</currencySymbol>
60      <isoCurrencySymbol>USD</isoCurrencySymbol>
61    </currency>
62    <currencyCultureCode>en-US</currencyCultureCode>
63    <dynamicFormResult>
64      <fields>
65        <field id="CustomName">Name1</field>
66        <field id="CustomText">MyText</field>
67        <field id="CustomColor">
68          <selected>Red</selected>
69          <selected>Blue</selected>
```

```

70     </field>
71     <field id="CustomSize">
72         <selected>XL</selected>
73     </field>
74 </fields>
75 </dynamicFormResult>
76 <exchangeRate>1.0000</exchangeRate>
77 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
78 <formattedTotalAmount>$20.00</formattedTotalAmount>
79 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
80 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
81 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
82 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
83 <formattedTotalTaxAmount></formattedTotalTaxAmount>
84 <handlingAmount>9.00</handlingAmount>
85 <handlingDiscountAmount>0</handlingDiscountAmount>
86 <orderDate>2001-01-01T12:00:00</orderDate>
87 <origin>1</origin>
88 <parentSalesOrderID></parentSalesOrderID>
89 <previousSalesPaymentStatus>1</previousSalesPaymentStatus>
90 <previousShippingStatus>1</previousShippingStatus>
91 <previousStatus>1</previousStatus>
92 <purchaseOrderNumber></purchaseOrderNumber>
93 <rewardsPointsQualified>0</rewardsPointsQualified>
94 <salesOrderDetails>
95     <salesOrderDetail>
96         <amount>10.0000</amount>
97         <amountWithTax>10.0000</amountWithTax>
98         <bookingStartDate></bookingStartDate>
99         <bookingStopDate></bookingStopDate>
100        <combinedAmount>10.0000</combinedAmount>
101        <combinedAmountWithTax>10.0000</combinedAmountWithTax>
102        <combinedPrice>10.0000</combinedPrice>
103        <combinedTotalAmount>10.0000</combinedTotalAmount>
104        <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
105        <discountAmount>0</discountAmount>
106        <dynamicFormResult>
107            <fields>
108                <field id="CustomURL">http://www.yahoo.com</field>
109                <field id="CustomText">MyText</field>
110                <field id="CustomColor">
111                    <selected>Red</selected>
112                    <selected>Blue</selected>
113                </field>
114                <field id="CustomSize">
115                    <selected>XL</selected>
116                </field>
117            </fields>
118        </dynamicFormResult>
119        <formattedAmount>$10.00</formattedAmount>
120        <formattedCombinedAmount>$10.00</formattedCombinedAmount>
121        <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
122        <formattedCombinedPrice>$10.00</formattedCombinedPrice>
123        <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
124        <formattedDiscountAmount>$0.00</formattedDiscountAmount>
125        <formattedPrice>$10.00</formattedPrice>
126        <formattedTotalAmount>$10.00</formattedTotalAmount>
127        <parentSalesOrderDetailID></parentSalesOrderDetailID>
128        <price>10.0000</price>
129        <productName>Good Book</productName>
130        <productVariant>
131            <basePrice>10.0000</basePrice>
132            <inventoryUnitType>1</inventoryUnitType>
133            <msrp>10.0000</msrp>
134            <name>Series 1</name>
135            <product>
136                <name>Good Book</name>
137                <summary></summary>
138            </product>
139            <sku>A100</sku>
140            <summary></summary>
141        </productVariant>
142        <productVariantExtension>
143            <data>
144                <shippingRate>1.00</shippingRate>
145            </data>
146        </productVariantExtension>
147        <productVariantName>Series 1</productVariantName>
148        <quantity>1</quantity>
149        <salesOrderDetailID>102</salesOrderDetailID>
150        <shippingStatus>3</shippingStatus>
151        <sku>A100</sku>
152        <status>1</status>
153        <totalAmount>10.0000</totalAmount>
154        <totalAmountWithTax>10.0000</totalAmountWithTax>
155    </salesOrderDetail>
156 </salesOrderDetails>
157 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
158 <salesOrderNumber>SA1000</salesOrderNumber>
159 <salesPayments>
160     <salesPayment>
161         <amount>10.0000</amount>

```

```

162     <creditCardHint>4345</creditCardHint>
163     <formattedAmount>$10.00</formattedAmount>
164     <paymentDate>2001-01-01T12:00:00</paymentDate>
165     <paymentGateway>PayPalWPP</paymentGateway>
166     <paymentHint></paymentHint>
167     <paymentMethod>3</paymentMethod>
168     <paymentMethodName>Credit card</paymentMethodName>
169     <responseCode>1</responseCode>
170     <transactionType>2</transactionType>
171     <voucherHint></voucherHint>
172 </salesPayment>
173 </salesPayments>
174 <salesPaymentStatus>1</salesPaymentStatus>
175 <seller>
176     <city>Beverley Hills</city>
177     <countryCode>US</countryCode>
178     <email>test@example.com</email>
179     <phone>111-111-1111</phone>
180     <postalCode>90210</postalCode>
181     <street>1 Melrose</street>
182     <subdivisionCode>US-CA</subdivisionCode>
183 </seller>
184 <sellerID>1</sellerID>
185 <shippingAmount>1.00</shippingAmount>
186 <shippingCity>Beverley Hills</shippingCity>
187 <shippingCompany>Revindex</shippingCompany>
188 <shippingCountryCode>US</shippingCountryCode>
189 <shippingCountryName>United States</shippingCountryName>
190 <shippingDiscountAmount>0</shippingDiscountAmount>
191 <shippingEmail>text@example.com</shippingEmail>
192 <shippingFirstName>John</shippingFirstName>
193 <shippingLastName>Doe</shippingLastName>
194 <shippingMethod>
195     <name>Ground</name>
196 </shippingMethod>
197 <shippingMethodID>2</shippingMethodID>
198 <shippingPhone>111-111-1111</shippingPhone>
199 <shippingPostalCode>90210</shippingPostalCode>
200 <shippingStatus>1</shippingStatus>
201 <shippingStreet>1 Melrose</shippingStreet>
202 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
203 <shippingSubdivisionName>California</shippingSubdivisionName>
204 <shippingTrackingCode>GH88888</shippingTrackingCode>
205 <status>2</status>
206 <subTotalAmount>10.00</subTotalAmount>
207 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
208 <taxAmount1>0.00</taxAmount1>
209 <taxAmount2>0.00</taxAmount2>
210 <taxAmount3>0.00</taxAmount3>
211 <taxAmount4>0.00</taxAmount4>
212 <taxAmount5>0.00</taxAmount5>
213 <taxDiscountAmount>0</taxDiscountAmount>
214 <totalAmount>20.00</totalAmount>
215 <totalHandlingAmount>9.00</totalHandlingAmount>
216 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
217 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
218 <totalSavingsAmount>0.00</totalSavingsAmount>
219 <totalShippingAmount>1.00</totalShippingAmount>
220 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
221 <userHostAddress>127.0.0.1</userHostAddress>
222 <warehouse>
223     <city>Beverley Hills</city>
224     <countryCode>US</countryCode>
225     <email></email>
226     <phone></phone>
227     <postalCode>90210</postalCode>
228     <street>1 Melrose</street>
229     <subdivisionCode>US-CA</subdivisionCode>
230 </warehouse>
231 <warehouseID>1</warehouseID>
232 </salesOrder>
233 <user>
234     <email>user@address.com</email>
235     <firstName>John</firstName>
236     <lastName>Doe</lastName>
237     <profile>
238         <profileProperties>
239             <Biography></Biography>
240             <Cell></Cell>
241             <City>Beverley Hills</City>
242             <Country>United States</Country>
243             <Fax></Fax>
244             <FirstName>John</FirstName>
245             <IM></IM>
246             <LastName>Doe</LastName>
247             <MiddleName></MiddleName>
248             <Photo></Photo>
249             <PostalCode>90210</PostalCode>
250             <PreferredLocale>en-US</PreferredLocale>
251             <Prefix></Prefix>
252             <Region>California</Region>
253             <Street>1 Melrose</Street>

```

```
254         <Suffix></Suffix>
255         <Telephone>111-111-1111</Telephone>
256         <TimeZone>0</TimeZone>
257         <Unit></Unit>
258         <Website></Website>
259     </profileProperties>
260 </profile>
261 <roles>
262     <role>Role1</role>
263     <role>Role2</role>
264 </roles>
265 <userHostAddress>127.0.0.1</userHostAddress>
266 <userID>1</userID>
267 <username>host</username>
268 </user>
269 </in>
270
```

# Packing slip print

The packing slip template can be printed out by the merchant to include in shipping.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailSender>test@example.com</generalEmailSender>
4     <generalStoreName>Revindex Storefront</generalStoreName>
5   </configuration>
6   <portal>
7     <cartTabs>
8       <tab>
9         <tabID>57</tabID>
10      </tab>
11    </cartTabs>
12    <checkoutTabs>
13      <tab>
14        <tabID>61</tabID>
15      </tab>
16    </checkoutTabs>
17    <manageOrderTabs>
18      <tab>
19        <tabID>62</tabID>
20      </tab>
21    </manageOrderTabs>
22    <manageVoucherTabs>
23      <tab>
24        <tabID>174</tabID>
25      </tab>
26    </manageVoucherTabs>
27    <portalAliases>
28      <portalAlias>
29        <cultureCode></cultureCode>
30        <httpAlias>site.com</httpAlias>
31        <isPrimary>true</isPrimary>
32        <portalAliasID>1</portalAliasID>
33      </portalAlias>
34    </portalAliases>
35    <portalID>0</portalID>
36  </portal>
37  <salesOrder>
38    <billingCity>Beverley Hills</billingCity>
39    <billingCompany>Revindex</billingCompany>
40    <billingCountryCode>US</billingCountryCode>
41    <billingCountryName>United States</billingCountryName>
42    <billingEmail>text@example.com</billingEmail>
43    <billingFirstName>John</billingFirstName>
44    <billingLastName>Doe</billingLastName>
45    <billingPhone>111-111-1111</billingPhone>
46    <billingPostalCode>90210</billingPostalCode>
47    <billingStreet>1 Melrose</billingStreet>
48    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
49    <billingSubdivisionName>California</billingSubdivisionName>
50    <businessTaxNumber>GB 123456789</businessTaxNumber>
51    <couponCodes>
52      <couponCode>free2</couponCode>
53    </couponCodes>
54    <cultureCode>en-US</cultureCode>
55    <currency>
56      <currencySymbol>$</currencySymbol>
57      <isoCurrencySymbol>USD</isoCurrencySymbol>
58    </currency>
59    <currencyCultureCode>en-US</currencyCultureCode>
60    <dynamicFormResult>
61      <fields>
62        <field id="CustomName">Name1</field>
63        <field id="CustomText">MyText</field>
64        <field id="CustomColor">
65          <selected>Red</selected>
66          <selected>Blue</selected>
67        </field>
68        <field id="CustomSize">
69          <selected>XL</selected>
70        </field>
71      </fields>
```

```

72 </dynamicFormResult>
73 <exchangeRate>1.0000</exchangeRate>
74 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
75 <formattedTotalAmount>$20.00</formattedTotalAmount>
76 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
77 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
78 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
79 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
80 <formattedTotalTaxAmount></formattedTotalTaxAmount>
81 <handlingAmount>9.00</handlingAmount>
82 <handlingDiscountAmount>0</handlingDiscountAmount>
83 <orderDate>2001-01-01T12:00:00</orderDate>
84 <origin>1</origin>
85 <parentSalesOrderID></parentSalesOrderID>
86 <purchaseOrderNumber></purchaseOrderNumber>
87 <rewardsPointsQualified>0</rewardsPointsQualified>
88 <salesOrderDetails>
89   <salesOrderDetail>
90     <amount>10.0000</amount>
91     <amountWithTax>10.0000</amountWithTax>
92     <bookingStartDate></bookingStartDate>
93     <bookingStopDate></bookingStopDate>
94     <combinedAmount>10.0000</combinedAmount>
95     <combinedAmountWithTax>10.0000</combinedAmountWithTax>
96     <combinedPrice>10.0000</combinedPrice>
97     <combinedTotalAmount>10.0000</combinedTotalAmount>
98     <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
99     <discountAmount>0</discountAmount>
100   <dynamicFormResult>
101     <fields>
102       <field id="CustomURL">http://www.yahoo.com</field>
103       <field id="CustomText">MyText</field>
104       <field id="CustomColor">
105         <selected>Red</selected>
106         <selected>Blue</selected>
107       </field>
108       <field id="CustomSize">
109         <selected>XL</selected>
110       </field>
111     </fields>
112   </dynamicFormResult>
113   <formattedAmount>$10.00</formattedAmount>
114   <formattedCombinedAmount>$10.00</formattedCombinedAmount>
115   <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
116   <formattedCombinedPrice>$10.00</formattedCombinedPrice>
117   <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
118   <formattedDiscountAmount>$0.00</formattedDiscountAmount>
119   <formattedPrice>$10.00</formattedPrice>
120   <formattedTotalAmount>$10.00</formattedTotalAmount>
121   <parentSalesOrderDetailID></parentSalesOrderDetailID>
122   <price>10.0000</price>
123   <productName>Good Book</productName>
124   <productVariant>
125     <basePrice>10.0000</basePrice>
126     <inventoryUnitType>1</inventoryUnitType>
127     <msrp>10.0000</msrp>
128     <name>Series 1</name>
129     <product>
130       <name>Good Book</name>
131       <summary></summary>
132     </product>
133     <sku>A100</sku>
134     <summary></summary>
135   </productVariant>
136   <productVariantExtension>
137     <data>
138       <shippingRate>1.00</shippingRate>
139     </data>
140   </productVariantExtension>
141   <productVariantName>Series 1</productVariantName>
142   <quantity>1</quantity>
143   <salesOrderDetailID>102</salesOrderDetailID>
144   <shippingStatus>3</shippingStatus>
145   <sku>A100</sku>
146   <status>1</status>
147   <totalAmount>10.0000</totalAmount>
148   <totalAmountWithTax>10.0000</totalAmountWithTax>
149 </salesOrderDetail>
150 </salesOrderDetails>
151 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
152 <salesOrderNumber>SA1000</salesOrderNumber>
153 <salesPayments>
154   <salesPayment>
155     <amount>10.0000</amount>
156     <creditCardHint>4345</creditCardHint>
157     <paymentDate>2001-01-01T12:00:00</paymentDate>
158     <paymentGateway>PayPalWPP</paymentGateway>
159     <paymentHint></paymentHint>
160     <paymentMethod>3</paymentMethod>
161     <paymentMethodName>Credit card</paymentMethodName>
162     <responseCode>1</responseCode>
163     <transactionType>2</transactionType>

```



```
164     <voucherHint></voucherHint>
165   </salesPayment>
166 </salesPayments>
167 <salesPaymentStatus>1</salesPaymentStatus>
168 <seller>
169   <city>Beverley Hills</city>
170   <countryCode>US</countryCode>
171   <email>test@example.com</email>
172   <phone>111-111-1111</phone>
173   <postalCode>90210</postalCode>
174   <street>1 Melrose</street>
175   <subdivisionCode>US-CA</subdivisionCode>
176 </seller>
177 <sellerID>1</sellerID>
178 <shippingAmount>1.00</shippingAmount>
179 <shippingCity>Beverley Hills</shippingCity>
180 <shippingCompany>Revindex</shippingCompany>
181 <shippingCountryCode>US</shippingCountryCode>
182 <shippingCountryName>United States</shippingCountryName>
183 <shippingDiscountAmount>0</shippingDiscountAmount>
184 <shippingEmail>text@example.com</shippingEmail>
185 <shippingFirstName>John</shippingFirstName>
186 <shippingLastName>Doe</shippingLastName>
187 <shippingMethod>
188   <name>Ground</name>
189 </shippingMethod>
190 <shippingMethodID>2</shippingMethodID>
191 <shippingPackages>
192   <shippingPackage>
193     <name>Regular box</name>
194     <packageType>2000</packageType>
195     <weight>500</weight>
196     <width>20</width>
197     <depth>20</depth>
198     <height>20</height>
199     <internalWidth>20</internalWidth>
200     <internalDepth>20</internalDepth>
201     <internalHeight>20</internalHeight>
202     <insuredAmount>5.00</insuredAmount>
203     <shippingCode />
204     <products>
205       <product>
206         <quantity>1</quantity>
207         <insuredAmount>5.00</insuredAmount>
208         <salesOrderDetailID>102</salesOrderDetailID>
209       </product>
210     </products>
211   </shippingPackage>
212 </shippingPackages>
213 <shippingPhone>111-111-1111</shippingPhone>
214 <shippingPostalCode>90210</shippingPostalCode>
215 <shippingStatus>1</shippingStatus>
216 <shippingStreet>1 Melrose</shippingStreet>
217 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
218 <shippingSubdivisionName>California</shippingSubdivisionName>
219 <shippingTrackingCode>GH88888</shippingTrackingCode>
220 <status>2</status>
221 <subTotalAmount>10.00</subTotalAmount>
222 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
223 <taxAmount1>0.00</taxAmount1>
224 <taxAmount2>0.00</taxAmount2>
225 <taxAmount3>0.00</taxAmount3>
226 <taxAmount4>0.00</taxAmount4>
227 <taxAmount5>0.00</taxAmount5>
228 <taxDiscountAmount>0</taxDiscountAmount>
229 <totalAmount>20.00</totalAmount>
230 <totalHandlingAmount>9.00</totalHandlingAmount>
231 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
232 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
233 <totalSavingsAmount>0.00</totalSavingsAmount>
234 <totalShippingAmount>1.00</totalShippingAmount>
235 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
236 <userHostAddress>127.0.0.1</userHostAddress>
237 <warehouse>
238   <city>Beverley Hills</city>
239   <countryCode>US</countryCode>
240   <email></email>
241   <phone></phone>
242   <postalCode>90210</postalCode>
243   <street>1 Melrose</street>
244   <subdivisionCode>US-CA</subdivisionCode>
245 </warehouse>
246 <warehouseID>1</warehouseID>
247 </salesOrder>
248 <user>
249   <email>user@address.com</email>
250   <firstName>John</firstName>
251   <lastName>Doe</lastName>
252   <profile>
253     <profileProperties>
254       <Biography></Biography>
255       <Cell></Cell>
```

```
256     <City>Beverley Hills</City>
257     <Country>United States</Country>
258     <Fax></Fax>
259     <FirstName>John</FirstName>
260     <IM></IM>
261     <LastName>Doe</LastName>
262     <MiddleName></MiddleName>
263     <Photo></Photo>
264     <PostalCode>90210</PostalCode>
265     <PreferredLocale>en-US</PreferredLocale>
266     <Prefix></Prefix>
267     <Region>California</Region>
268     <Street>1 Melrose</Street>
269     <Suffix></Suffix>
270     <Telephone>111-111-1111</Telephone>
271     <TimeZone>0</TimeZone>
272     <Unit></Unit>
273     <Website></Website>
274   </profileProperties>
275 </profile>
276 <roles>
277   <role>Role1</role>
278   <role>Role2</role>
279 </roles>
280 <userHostAddress>127.0.0.1</userHostAddress>
281 <userID>1</userID>
282 <username>host</username>
283 </user>
284 </in>
285
```

# Payment alert email

This email is sent to alert the merchant when a payment has been made to an existing order (e.g. when customer pays an invoice). By default, the Storefront will send the alert to the sender email address listed under the **Configuration > General** settings.

The Basic template rule can accept XSL tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailRecipient>recipient@localhost.com</generalEmailRecipient>
4     <generalEmailSender>test@example.com</generalEmailSender>
5     <generalStoreName>Revindex Storefront</generalStoreName>
6   </configuration>
7   <manageOrder>
8     <tabUrl>https://site.com/page</tabUrl>
9   </manageOrder>
10  <portal>
11    <cartTabs>
12      <tab>
13        <tabID>57</tabID>
14      </tab>
15    </cartTabs>
16    <checkoutTabs>
17      <tab>
18        <tabID>61</tabID>
19      </tab>
20    </checkoutTabs>
21    <manageOrderTabs>
22      <tab>
23        <tabID>62</tabID>
24      </tab>
25    </manageOrderTabs>
26    <manageVoucherTabs>
27      <tab>
28        <tabID>174</tabID>
29      </tab>
30    </manageVoucherTabs>
31    <portalAliases>
32      <portalAlias>
33        <cultureCode></cultureCode>
34        <httpAlias>site.com</httpAlias>
35        <isPrimary>true</isPrimary>
36        <portalAliasID>1</portalAliasID>
37      </portalAlias>
38    </portalAliases>
39    <portalID>0</portalID>
40  </portal>
41  <salesOrder>
42    <billingCity>Beverly Hills</billingCity>
43    <billingCompany>Revindex</billingCompany>
44    <billingCountryCode>US</billingCountryCode>
45    <billingCountryName>United States</billingCountryName>
46    <billingEmail>text@example.com</billingEmail>
47    <billingFirstName>John</billingFirstName>
48    <billingLastName>Doe</billingLastName>
49    <billingPhone>111-111-1111</billingPhone>
50    <billingPostalCode>90210</billingPostalCode>
51    <billingStreet>1 Melrose</billingStreet>
52    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
53    <billingSubdivisionName>California</billingSubdivisionName>
54    <businessTaxNumber>GB 123456789</businessTaxNumber>
55    <couponCodes>
56      <couponCode>free2</couponCode>
57    </couponCodes>
58    <cultureCode>en-US</cultureCode>
59    <currency>
60      <currencySymbol>$</currencySymbol>
61      <isoCurrencySymbol>USD</isoCurrencySymbol>
62    </currency>
63    <currencyCultureCode>en-US</currencyCultureCode>
64    <dynamicFormResult>
65      <fields>
66        <field id="CustomName">Name1</field>
67        <field id="CustomText">MyText</field>
```

```

68     <field id="CustomColor">
69         <selected>Red</selected>
70         <selected>Blue</selected>
71     </field>
72     <field id="CustomSize">
73         <selected>XL</selected>
74     </field>
75 </fields>
76 </dynamicFormResult>
77 <exchangeRate>1.0000</exchangeRate>
78 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
79 <formattedTotalAmount>$20.00</formattedTotalAmount>
80 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
81 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
82 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
83 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
84 <formattedTotalTaxAmount></formattedTotalTaxAmount>
85 <handlingAmount>9.00</handlingAmount>
86 <handlingDiscountAmount>0</handlingDiscountAmount>
87 <orderDate>2001-01-01T12:00:00</orderDate>
88 <origin>1</origin>
89 <parentSalesOrderID></parentSalesOrderID>
90 <purchaseOrderNumber></purchaseOrderNumber>
91 <rewardsPointsQualified>0</rewardsPointsQualified>
92 <salesOrderDetails>
93     <salesOrderDetail>
94         <amount>10.0000</amount>
95         <amountWithTax>10.0000</amountWithTax>
96         <bookingStartDate></bookingStartDate>
97         <bookingStopDate></bookingStopDate>
98         <combinedAmount>10.0000</combinedAmount>
99         <combinedAmountWithTax>10.0000</combinedAmountWithTax>
100        <combinedPrice>10.0000</combinedPrice>
101        <combinedTotalAmount>10.0000</combinedTotalAmount>
102        <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
103        <discountAmount>0</discountAmount>
104        <dynamicFormResult>
105            <fields>
106                <field id="CustomURL">http://www.yahoo.com</field>
107                <field id="CustomText">MyText</field>
108                <field id="CustomColor">
109                    <selected>Red</selected>
110                    <selected>Blue</selected>
111                </field>
112                <field id="CustomSize">
113                    <selected>XL</selected>
114                </field>
115            </fields>
116        </dynamicFormResult>
117        <formattedAmount>$10.00</formattedAmount>
118        <formattedCombinedAmount>$10.00</formattedCombinedAmount>
119        <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
120        <formattedCombinedPrice>$10.00</formattedCombinedPrice>
121        <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
122        <formattedDiscountAmount>$0.00</formattedDiscountAmount>
123        <formattedPrice>$10.00</formattedPrice>
124        <formattedTotalAmount>$10.00</formattedTotalAmount>
125        <parentSalesOrderDetailID></parentSalesOrderDetailID>
126        <price>10.0000</price>
127        <productName>Good Book</productName>
128        <productVariant>
129            <basePrice>10.0000</basePrice>
130            <inventoryUnitType>1</inventoryUnitType>
131            <msrp>10.0000</msrp>
132            <name>Series 1</name>
133            <product>
134                <name>Good Book</name>
135                <summary></summary>
136            </product>
137            <sku>A100</sku>
138            <summary></summary>
139        </productVariant>
140        <productVariantExtension>
141            <data>
142                <shippingRate>1.00</shippingRate>
143            </data>
144        </productVariantExtension>
145        <productVariantName>Series 1</productVariantName>
146        <quantity>1</quantity>
147        <salesOrderDetailID>102</salesOrderDetailID>
148        <sku>A100</sku>
149        <totalAmount>10.0000</totalAmount>
150        <totalAmountWithTax>10.0000</totalAmountWithTax>
151    </salesOrderDetail>
152 </salesOrderDetails>
153 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
154 <salesOrderNumber>SA1000</salesOrderNumber>
155 <salesPayments>
156     <salesPayment>
157         <amount>10.0000</amount>
158         <creditCardHint>4345</creditCardHint>
159         <formattedAmount>$10.00</formattedAmount>

```

```
<paymentDate>2001-01-01T12:00:00</paymentDate>
<paymentGateway>PayPalWPP</paymentGateway>
<paymentHint></paymentHint>
<paymentMethod>3</paymentMethod>
<paymentMethodName>Credit card</paymentMethodName>
<responseCode>1</responseCode>
<transactionType>2</transactionType>
<voucherHint></voucherHint>
</salesPayment>
</salesPayments>
<salesPaymentStatus>1</salesPaymentStatus>
<seller>
  <city>Beverley Hills</city>
  <countryCode>US</countryCode>
  <email>test@example.com</email>
  <phone>111-111-1111</phone>
  <postalCode>90210</postalCode>
  <street>1 Melrose</street>
  <subdivisionCode>US-CA</subdivisionCode>
</seller>
<sellerID>1</sellerID>
<shippingAmount>1.00</shippingAmount>
<shippingCity>Beverley Hills</shippingCity>
<shippingCompany>Revindex</shippingCompany>
<shippingCountryCode>US</shippingCountryCode>
<shippingCountryName>United States</shippingCountryName>
<shippingDiscountAmount>0</shippingDiscountAmount>
<shippingEmail>text@example.com</shippingEmail>
<shippingFirstName>John</shippingFirstName>
<shippingLastName>Doe</shippingLastName>
<shippingMethod>
  <name>Ground</name>
</shippingMethod>
<shippingMethodID>2</shippingMethodID>
<shippingPhone>111-111-1111</shippingPhone>
<shippingPostalCode>90210</shippingPostalCode>
<shippingStatus>1</shippingStatus>
<shippingStreet>1 Melrose</shippingStreet>
<shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
<shippingSubdivisionName>California</shippingSubdivisionName>
<shippingTrackingCode>GH88888</shippingTrackingCode>
<status>2</status>
<subTotalAmount>10.00</subTotalAmount>
<subTotalAmountWithTax>10.00</subTotalAmountWithTax>
<taxAmount1>0.00</taxAmount1>
<taxAmount2>0.00</taxAmount2>
<taxAmount3>0.00</taxAmount3>
<taxAmount4>0.00</taxAmount4>
<taxAmount5>0.00</taxAmount5>
<taxDiscountAmount>0</taxDiscountAmount>
<totalAmount>20.00</totalAmount>
<totalHandlingAmount>9.00</totalHandlingAmount>
<totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
<totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
<totalSavingsAmount>0.00</totalSavingsAmount>
<totalShippingAmount>1.00</totalShippingAmount>
<totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
<userHostAddress>127.0.0.1</userHostAddress>
<warehouse>
  <city>Beverley Hills</city>
  <countryCode>US</countryCode>
  <email></email>
  <phone></phone>
  <postalCode>90210</postalCode>
  <street>1 Melrose</street>
  <subdivisionCode>US-CA</subdivisionCode>
</warehouse>
<warehouseID>1</warehouseID>
</salesOrder>
<user>
  <email>user@address.com</email>
  <firstName>John</firstName>
  <lastName>Doe</lastName>
  <profile>
    <profileProperties>
      <Biography></Biography>
      <Cell></Cell>
      <City>Beverley Hills</City>
      <Country>United States</Country>
      <Fax></Fax>
      <FirstName>John</FirstName>
      <IM></IM>
      <LastName>Doe</LastName>
      <MiddleName></MiddleName>
      <Photo></Photo>
      <PostalCode>90210</PostalCode>
      <PreferredLocale>en-US</PreferredLocale>
      <Prefix></Prefix>
      <Region>California</Region>
      <Street>1 Melrose</Street>
      <Suffix></Suffix>
      <Telephone>111-111-1111</Telephone>
```

```
252         <TimeZone>0</TimeZone>
253         <Unit></Unit>
254         <Website></Website>
255     </profileProperties>
256 </profile>
257 <roles>
258     <role>Role1</role>
259     <role>Role2</role>
260 </roles>
261 <userHostAddress>127.0.0.1</userHostAddress>
262 <userID>1</userID>
263 <username>host</username>
264 </user>
265 </in>
266
```

# Recurring order payment retry email

This email is sent out to users to remind them the system will re-attempt capturing payment for a previously failed recurring order transaction. For example, the user can then ensure their payment information is up-to-date and they have sufficient funds in their credit card.

The Basic template rule can accept XSL tokens

(<http://www.revindex.com/Resources/KnowledgeBase/RevindexStorefront/tabid/174/rvdwktid/order-alert-email-264/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailSender>test@example.com</generalEmailSender>
4     <generalStoreName>Revindex Storefront</generalStoreName>
5   </configuration>
6   <manageOrder>
7     <tabUrl>https://site.com/page</tabUrl>
8   </manageOrder>
9   <portal>
10    <cartTabs>
11      <tab>
12        <tabID>57</tabID>
13      </tab>
14    </cartTabs>
15    <checkoutTabs>
16      <tab>
17        <tabID>61</tabID>
18      </tab>
19    </checkoutTabs>
20    <manageOrderTabs>
21      <tab>
22        <tabID>62</tabID>
23      </tab>
24    </manageOrderTabs>
25    <managePaymentTabs>
26      <tab>
27        <tabID>67</tabID>
28      </tab>
29    </managePaymentTabs>
30    <manageVoucherTabs>
31      <tab>
32        <tabID>174</tabID>
33      </tab>
34    </manageVoucherTabs>
35    <portalAliases>
36      <portalAlias>
37        <cultureCode></cultureCode>
38        <httpAlias>site.com</httpAlias>
39        <isPrimary>true</isPrimary>
40        <portalAliasID>1</portalAliasID>
41      </portalAlias>
42    </portalAliases>
43    <portalID>0</portalID>
44  </portal>
45  <salesOrder>
46    <billingCity>Beverley Hills</billingCity>
47    <billingCompany>Revindex</billingCompany>
48    <billingCountryCode>US</billingCountryCode>
49    <billingCountryName>United States</billingCountryName>
50    <billingEmail>text@example.com</billingEmail>
51    <billingFirstName>John</billingFirstName>
52    <billingLastName>Doe</billingLastName>
53    <billingPhone>111-111-1111</billingPhone>
54    <billingPostalCode>90210</billingPostalCode>
55    <billingStreet>1 Melrose</billingStreet>
56    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
57    <billingSubdivisionName>California</billingSubdivisionName>
58    <businessTaxNumber>GB 123456789</businessTaxNumber>
59    <couponCodes>
60      <couponCode>free2</couponCode>
61    </couponCodes>
62    <cultureCode>en-US</cultureCode>
63    <currency>
64      <currencySymbol>$</currencySymbol>
65      <isoCurrencySymbol>USD</isoCurrencySymbol>
66    </currency>
```

```

67 <currencyCultureCode>en-US</currencyCultureCode>
68 <dynamicFormResult>
69   <fields>
70     <field id="CustomName">Name1</field>
71     <field id="CustomText">MyText</field>
72     <field id="CustomColor">
73       <selected>Red</selected>
74       <selected>Blue</selected>
75     </field>
76     <field id="CustomSize">
77       <selected>XL</selected>
78     </field>
79   </fields>
80 </dynamicFormResult>
81 <exchangeRate>1.0000</exchangeRate>
82 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
83 <formattedTotalAmount>$20.00</formattedTotalAmount>
84 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
85 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
86 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
87 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
88 <formattedTotalTaxAmount></formattedTotalTaxAmount>
89 <handlingAmount>9.00</handlingAmount>
90 <handlingDiscountAmount>0</handlingDiscountAmount>
91 <orderDate>2001-01-01T12:00:00</orderDate>
92 <origin>1</origin>
93 <parentSalesOrderID></parentSalesOrderID>
94 <purchaseOrderNumber></purchaseOrderNumber>
95 <rewardsPointsQualified>0</rewardsPointsQualified>
96 <salesOrderDetails>
97   <salesOrderDetail>
98     <amount>10.0000</amount>
99     <amountWithTax>10.0000</amountWithTax>
100    <bookingStartDate></bookingStartDate>
101    <bookingStopDate></bookingStopDate>
102    <combinedAmount>10.0000</combinedAmount>
103    <combinedAmountWithTax>10.0000</combinedAmountWithTax>
104    <combinedPrice>10.0000</combinedPrice>
105    <combinedTotalAmount>10.0000</combinedTotalAmount>
106    <combinedTotalAmountWithTax>10.0000</combinedTotalAmountWithTax>
107    <discountAmount>0</discountAmount>
108    <dynamicFormResult>
109      <fields>
110        <field id="CustomURL">http://www.yahoo.com</field>
111        <field id="CustomText">MyText</field>
112        <field id="CustomColor">
113          <selected>Red</selected>
114          <selected>Blue</selected>
115        </field>
116        <field id="CustomSize">
117          <selected>XL</selected>
118        </field>
119      </fields>
120    </dynamicFormResult>
121    <formattedAmount>$10.00</formattedAmount>
122    <formattedCombinedAmount>$10.00</formattedCombinedAmount>
123    <formattedCombinedDiscountAmount>$0.00</formattedCombinedDiscountAmount>
124    <formattedCombinedPrice>$10.00</formattedCombinedPrice>
125    <formattedCombinedTotalAmount>$10.00</formattedCombinedTotalAmount>
126    <formattedDiscountAmount>$0.00</formattedDiscountAmount>
127    <formattedPrice>$10.00</formattedPrice>
128    <formattedTotalAmount>$10.00</formattedTotalAmount>
129    <parentSalesOrderDetailID></parentSalesOrderDetailID>
130    <price>10.0000</price>
131    <productName>Good Book</productName>
132    <productVariant>
133      <basePrice>10.0000</basePrice>
134      <inventoryUnitType>1</inventoryUnitType>
135      <msrp>10.0000</msrp>
136      <name>Series 1</name>
137      <product>
138        <name>Good Book</name>
139        <summary></summary>
140      </product>
141      <sku>A100</sku>
142      <summary></summary>
143    </productVariant>
144    <productVariantExtension>
145      <data>
146        <shippingRate>1.00</shippingRate>
147      </data>
148    </productVariantExtension>
149    <productVariantName>Series 1</productVariantName>
150    <quantity>1</quantity>
151    <salesOrderDetailID>102</salesOrderDetailID>
152    <shippingStatus>3</shippingStatus>
153    <sku>A100</sku>
154    <status>1</status>
155    <totalAmount>10.0000</totalAmount>
156    <totalAmountWithTax>10.0000</totalAmountWithTax>
157  </salesOrderDetail>
158 </salesOrderDetails>

```



```
159 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
160 <salesOrderNumber>SA1000</salesOrderNumber>
161 <salesPayments>
162   <salesPayment>
163     <amount>10.0000</amount>
164     <creditCardHint>4345</creditCardHint>
165     <formattedAmount>$10.00</formattedAmount>
166     <paymentDate>2001-01-01T12:00:00</paymentDate>
167     <paymentGateway>PayPalWPP</paymentGateway>
168     <paymentHint></paymentHint>
169     <paymentMethod>3</paymentMethod>
170     <paymentMethodName>Credit card</paymentMethodName>
171     <responseCode>1</responseCode>
172     <transactionType>2</transactionType>
173     <voucherHint></voucherHint>
174   </salesPayment>
175 </salesPayments>
176 <salesPaymentStatus>1</salesPaymentStatus>
177 <seller>
178   <city>Beverly Hills</city>
179   <countryCode>US</countryCode>
180   <email>test@example.com</email>
181   <phone>111-111-1111</phone>
182   <postalCode>90210</postalCode>
183   <street>1 Melrose</street>
184   <subdivisionCode>US-CA</subdivisionCode>
185 </seller>
186 <sellerID>1</sellerID>
187 <shippingAmount>1.00</shippingAmount>
188 <shippingCity>Beverly Hills</shippingCity>
189 <shippingCompany>Revindex</shippingCompany>
190 <shippingCountryCode>US</shippingCountryCode>
191 <shippingCountryName>United States</shippingCountryName>
192 <shippingDiscountAmount>0</shippingDiscountAmount>
193 <shippingEmail>text@example.com</shippingEmail>
194 <shippingFirstName>John</shippingFirstName>
195 <shippingLastName>Doe</shippingLastName>
196 <shippingMethod>
197   <name>Ground</name>
198 </shippingMethod>
199 <shippingMethodID>2</shippingMethodID>
200 <shippingPhone>111-111-1111</shippingPhone>
201 <shippingPostalCode>90210</shippingPostalCode>
202 <shippingStatus>1</shippingStatus>
203 <shippingStreet>1 Melrose</shippingStreet>
204 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
205 <shippingSubdivisionName>California</shippingSubdivisionName>
206 <shippingTrackingCode>GH88888</shippingTrackingCode>
207 <status>2</status>
208 <subTotalAmount>10.00</subTotalAmount>
209 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
210 <taxAmount1>0.00</taxAmount1>
211 <taxAmount2>0.00</taxAmount2>
212 <taxAmount3>0.00</taxAmount3>
213 <taxAmount4>0.00</taxAmount4>
214 <taxAmount5>0.00</taxAmount5>
215 <taxDiscountAmount>0</taxDiscountAmount>
216 <totalAmount>20.00</totalAmount>
217 <totalHandlingAmount>9.00</totalHandlingAmount>
218 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
219 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
220 <totalSavingsAmount>0.00</totalSavingsAmount>
221 <totalShippingAmount>1.00</totalShippingAmount>
222 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
223 <userHostAddress>127.0.0.1</userHostAddress>
224 <warehouse>
225   <city>Beverly Hills</city>
226   <countryCode>US</countryCode>
227   <email></email>
228   <phone></phone>
229   <postalCode>90210</postalCode>
230   <street>1 Melrose</street>
231   <subdivisionCode>US-CA</subdivisionCode>
232 </warehouse>
233 <warehouseID>1</warehouseID>
234 </salesOrder>
235 <user>
236   <email>user@address.com</email>
237   <firstName>John</firstName>
238   <lastName>Doe</lastName>
239   <profile>
240     <profileProperties>
241       <Biography></Biography>
242       <Cell></Cell>
243       <City>Beverly Hills</City>
244       <Country>United States</Country>
245       <Fax></Fax>
246       <FirstName>John</FirstName>
247       <IM></IM>
248       <LastName>Doe</LastName>
249       <MiddleName></MiddleName>
250       <Photo></Photo>
```

```
251     <PostalCode>90210</PostalCode>
252     <PreferredLocale>en-US</PreferredLocale>
253     <Prefix></Prefix>
254     <Region>California</Region>
255     <Street>1 Melrose</Street>
256     <Suffix></Suffix>
257     <Telephone>111-111-1111</Telephone>
258     <TimeZone>0</TimeZone>
259     <Unit></Unit>
260     <Website></Website>
261 </profileProperties>
262 </profile>
263 <roles>
264     <role>Role1</role>
265     <role>Role2</role>
266 </roles>
267 <userHostAddress>127.0.0.1</userHostAddress>
268 <userID>1</userID>
269 <username>host</username>
270 </user>
271 </in>
```

# Recurring order reminder email

This email is sent out to users to remind them of their upcoming recurring orders are due to repeat. Users may want to be reminded to update their address and payment information on file before the order is repeated.

The Basic template rule can accept XSL tokens

(<http://www.revindex.com/Resources/KnowledgeBase/RevindexStorefront/tabid/174/rvdwktid/order-alert-email-264/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailRecipient>support@localhost.com</generalEmailRecipient>
4     <generalEmailSender>support@localhost.com</generalEmailSender>
5     <generalStoreName>Revindex</generalStoreName>
6   </configuration>
7   <manageRecurringOrder>
8     <tabUrl>https://site.com/page</tabUrl>
9   </manageRecurringOrder>
10  <portal>
11    <managePaymentTabs>
12      <tab>
13        <tabID>65</tabID>
14      </tab>
15    </managePaymentTabs>
16    <manageRecurringOrderTabs>
17      <tab>
18        <tabID>64</tabID>
19      </tab>
20    </manageRecurringOrderTabs>
21    <portalAliases>
22      <portalAlias>
23        <cultureCode></cultureCode>
24        <httpAlias>site.com</httpAlias>
25        <isPrimary>true</isPrimary>
26        <portalAliasID>1</portalAliasID>
27      </portalAlias>
28    </portalAliases>
29    <portalID>0</portalID>
30  </portal>
31  <recurringSalesOrders>
32    <recurringSalesOrder>
33      <cultureCode>en-US</cultureCode>
34      <dynamicFormResult>
35        <fields>
36          <field id="CustomFieldID1">Value...</field>
37          <field id="CustomFieldID2">Value...</field>
38        </fields>
39      </dynamicFormResult>
40      <maxRepeat></maxRepeat>
41      <nextRecurringDate>2015-03-19T00:00:00</nextRecurringDate>
42      <originalSalesOrderID>1686</originalSalesOrderID>
43      <productVariant>
44        <basePrice>19.0000</basePrice>
45        <inventoryUnitType>1</inventoryUnitType>
46        <msrp>10.0000</msrp>
47        <name>Default</name>
48        <preorderInterval>0</preorderInterval>
49        <product>
50          <name>Product 3</name>
51        </product>
52        <sku></sku>
53      </productVariant>
54      <productVariantID>6</productVariantID>
55      <quantity>1</quantity>
56      <recurringSalesOrderID>58</recurringSalesOrderID>
57      <repeatCount>0</repeatCount>
58      <shippingCity>Beverley hills</shippingCity>
59      <shippingCompany></shippingCompany>
60      <shippingCountryCode>US</shippingCountryCode>
61      <shippingCountryName>United States</shippingCountryName>
62      <shippingEmail>customer@localhost.com</shippingEmail>
63      <shippingFirstName>John</shippingFirstName>
64      <shippingLastName>Doe</shippingLastName>
65      <shippingMethod>
66        <name>Ground</name>
67      </shippingMethod>
```

```

68     <shippingMethodID>2</shippingMethodID>
69     <shippingPhone>111-111-1111</shippingPhone>
70     <shippingPostalCode>90211</shippingPostalCode>
71     <shippingStreet>1 melrose place</shippingStreet>
72     <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
73     <shippingSubdivisionName>California</shippingSubdivisionName>
74     <status>1</status>
75     <userPayment>
76         <city>Raleigh</city>
77         <company></company>
78         <countryCode>US</countryCode>
79         <countryName>United States</countryName>
80         <creditCardHint></creditCardHint>
81         <email>customer@localhost.com</email>
82         <firstName>John</firstName>
83         <lastName>Doe</lastName>
84         <paymentHint></paymentHint>
85         <paymentMethod>3</paymentMethod>
86         <paymentMethodName>Credit card</paymentMethodName>
87         <phone>111-111-1111</phone>
88         <postalCode>27601</postalCode>
89         <street>1 Jones St</street>
90         <subdivisionCode>US-NC</subdivisionCode>
91         <subdivisionName>California</subdivisionName>
92         <voucherHint>WBEP</voucherHint>
93     </userPayment>
94     <userPaymentID>68</userPaymentID>
95 </recurringSalesOrder>
96 </recurringSalesOrders>
97 <user>
98     <email>customer@localhost.com</email>
99     <firstName>John</firstName>
100    <lastName>Doe</lastName>
101    <profile>
102        <profileProperties>
103            <Biography></Biography>
104            <Cell></Cell>
105            <City>Beverley hills</City>
106            <Country>United States</Country>
107            <Fax></Fax>
108            <FirstName>John</FirstName>
109            <IM></IM>
110            <LastName>Doe</LastName>
111            <MiddleName></MiddleName>
112            <Photo>-1</Photo>
113            <PostalCode>90210</PostalCode>
114            <PreferredLocale>en-US</PreferredLocale>
115            <PreferredTimeZone>Pacific Standard Time</PreferredTimeZone>
116            <Prefix></Prefix>
117            <Region>California</Region>
118            <Street>1 road</Street>
119            <Suffix></Suffix>
120            <Telephone>111-111-1111</Telephone>
121            <Unit></Unit>
122            <Website></Website>
123        </profileProperties>
124    </profile>
125    <roles>
126        <role>Role 2</role>
127        <role>Role 1</role>
128    </roles>
129    <userID>1</userID>
130    <username>host</username>
131 </user>
132 </in>

```

# Right receipt email

Voucher receipt is used to send an email to the customer their voucher codes. By default, the Storefront will send the invoice to the registered email address and billing address of the buyer.

The Basic template rule can accept XSL tokens

(<http://www.revindex.com/Resources/KnowledgeBase/RevindexStorefront/tabid/174/rvdwktid/email-invoice-268/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailRecipient>recipient@localhost.com</generalEmailRecipient>
4     <generalEmailSender>test@example.com</generalEmailSender>
5     <generalStoreName>Revindex Storefront</generalStoreName>
6   </configuration>
7   <manageRight>
8     <tabUrl>https://site.com/pageorder</tabUrl>
9   </manageRight>
10  <portal>
11    <cartTabs>
12      <tab>
13        <tabID>57</tabID>
14      </tab>
15    </cartTabs>
16    <checkoutTabs>
17      <tab>
18        <tabID>61</tabID>
19      </tab>
20    </checkoutTabs>
21    <manageOrderTabs>
22      <tab>
23        <tabID>62</tabID>
24      </tab>
25    </manageOrderTabs>
26    <manageRightTabs>
27      <tab>
28        <tabID>176</tabID>
29      </tab>
30    </manageRightTabs>
31    <portalAliases>
32      <portalAlias>
33        <cultureCode></cultureCode>
34        <httpAlias>site.com</httpAlias>
35        <isPrimary>true</isPrimary>
36        <portalAliasID>1</portalAliasID>
37      </portalAlias>
38    </portalAliases>
39    <portalID>0</portalID>
40  </portal>
41  <salesOrder>
42    <billingCity>Beverly Hills</billingCity>
43    <billingCompany>Revindex</billingCompany>
44    <billingCountryCode>US</billingCountryCode>
45    <billingCountryName>United States</billingCountryName>
46    <billingEmail>text@example.com</billingEmail>
47    <billingFirstName>John</billingFirstName>
48    <billingLastName>Doe</billingLastName>
49    <billingPhone>111-111-1111</billingPhone>
50    <billingPostalCode>90210</billingPostalCode>
51    <billingStreet>1 Melrose</billingStreet>
52    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
53    <billingSubdivisionName>California</billingSubdivisionName>
54    <businessTaxNumber>GB 123456789</businessTaxNumber>
55    <couponCodes>
56      <couponCode>free2</couponCode>
57    </couponCodes>
58    <cultureCode>en-US</cultureCode>
59    <currency>
60      <currencySymbol>$</currencySymbol>
61      <isoCurrencySymbol>USD</isoCurrencySymbol>
62    </currency>
63    <currencyCultureCode>en-US</currencyCultureCode>
64    <dynamicFormResult>
65      <fields>
66        <field id="CustomName">Name1</field>
67        <field id="CustomText">MyText</field>
```

```
68     <field id="CustomColor">
69         <selected>Red</selected>
70         <selected>Blue</selected>
71     </field>
72     <field id="CustomSize">
73         <selected>XL</selected>
74     </field>
75 </fields>
76 </dynamicFormResult>
77 <exchangeRate>1.0000</exchangeRate>
78 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
79 <formattedTotalAmount>$20.00</formattedTotalAmount>
80 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
81 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
82 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
83 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
84 <formattedTotalTaxAmount></formattedTotalTaxAmount>
85 <handlingAmount>9.00</handlingAmount>
86 <handlingDiscountAmount>0</handlingDiscountAmount>
87 <orderDate>2001-01-01T12:00:00</orderDate>
88 <origin>1</origin>
89 <parentSalesOrderID></parentSalesOrderID>
90 <purchaseOrderNumber></purchaseOrderNumber>
91 <rewardsPointsQualified>0</rewardsPointsQualified>
92 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
93 <salesOrderNumber>SA1000</salesOrderNumber>
94 <salesPaymentStatus>1</salesPaymentStatus>
95 <seller>
96     <city>Beverley Hills</city>
97     <countryCode>US</countryCode>
98     <email>test@example.com</email>
99     <phone>111-111-1111</phone>
100    <postalCode>90210</postalCode>
101    <street>1 Melrose</street>
102    <subdivisionCode>US-CA</subdivisionCode>
103 </seller>
104 <sellerID>1</sellerID>
105 <shippingAmount>1.00</shippingAmount>
106 <shippingCity>Beverley Hills</shippingCity>
107 <shippingCompany>Revindex</shippingCompany>
108 <shippingCountryCode>US</shippingCountryCode>
109 <shippingCountryName>United States</shippingCountryName>
110 <shippingDiscountAmount>0</shippingDiscountAmount>
111 <shippingEmail>text@example.com</shippingEmail>
112 <shippingFirstName>John</shippingFirstName>
113 <shippingLastName>Doe</shippingLastName>
114 <shippingMethod>
115     <name>Ground</name>
116 </shippingMethod>
117 <shippingMethodID>2</shippingMethodID>
118 <shippingPhone>111-111-1111</shippingPhone>
119 <shippingPostalCode>90210</shippingPostalCode>
120 <shippingStatus>1</shippingStatus>
121 <shippingStreet>1 Melrose</shippingStreet>
122 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
123 <shippingSubdivisionName>California</shippingSubdivisionName>
124 <shippingTrackingCode>GH88888</shippingTrackingCode>
125 <status>2</status>
126 <subTotalAmount>10.00</subTotalAmount>
127 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
128 <taxAmount1>0.00</taxAmount1>
129 <taxAmount2>0.00</taxAmount2>
130 <taxAmount3>0.00</taxAmount3>
131 <taxAmount4>0.00</taxAmount4>
132 <taxAmount5>0.00</taxAmount5>
133 <taxDiscountAmount>0</taxDiscountAmount>
134 <totalAmount>20.00</totalAmount>
135 <totalHandlingAmount>9.00</totalHandlingAmount>
136 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
137 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
138 <totalSavingsAmount>0.00</totalSavingsAmount>
139 <totalShippingAmount>1.00</totalShippingAmount>
140 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
141 <userHostAddress>127.0.0.1</userHostAddress>
142 <warehouse>
143     <city>Beverley Hills</city>
144     <countryCode>US</countryCode>
145     <email></email>
146     <phone></phone>
147     <postalCode>90210</postalCode>
148     <street>1 Melrose</street>
149     <subdivisionCode>US-CA</subdivisionCode>
150 </warehouse>
151 <warehouseID>1</warehouseID>
152 </salesOrder>
153 <user>
154     <email>user@address.com</email>
155     <firstName>John</firstName>
156     <lastName>Doe</lastName>
157     <profile>
158         <profileProperties>
159             <Biography></Biography>
```

```
160     <Cell></Cell>
161     <City>Beverley Hills</City>
162     <Country>United States</Country>
163     <Fax></Fax>
164     <FirstName>John</FirstName>
165     <IM></IM>
166     <LastName>Doe</LastName>
167     <MiddleName></MiddleName>
168     <Photo></Photo>
169     <PostalCode>90210</PostalCode>
170     <PreferredLocale>en-US</PreferredLocale>
171     <Prefix></Prefix>
172     <Region>California</Region>
173     <Street>1 Melrose</Street>
174     <Suffix></Suffix>
175     <Telephone>111-111-1111</Telephone>
176     <TimeZone>0</TimeZone>
177     <Unit></Unit>
178     <Website></Website>
179 </profileProperties>
180 </profile>
181 <roles>
182   <role>Role1</role>
183   <role>Role2</role>
184 </roles>
185 <userHostAddress>127.0.0.1</userHostAddress>
186 <userID>1</userID>
187 <username>host</username>
188 </user>
189 <rights>
190   <right>
191     <code>VKM02XTJKPZUNGPB</code>
192     <issueDate>2013-10-23T10:17:34</issueDate>
193     <rightDefinition>
194       <name>License key</name>
195       <description></description>
196     </rightDefinition>
197     <rightDefinitionID>7</rightDefinitionID>
198   </right>
199 </rights>
200 </in>
```

# Voucher receipt email

Voucher receipt is used to send an email to the customer their voucher codes. By default, the Storefront will send the invoice to the registered email address and billing address of the buyer.

The Basic template rule can accept XSL tokens

(<http://www.revindex.com/Resources/KnowledgeBase/RevindexStorefront/tabid/174/rvdwktid/email-invoice-268/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to inject dynamic data. Below is the sample XML input that you can retrieve token values from:

```
1 <in>
2   <configuration>
3     <generalEmailRecipient>recipient@localhost.com</generalEmailRecipient>
4     <generalEmailSender>test@example.com</generalEmailSender>
5     <generalStoreName>Revindex Storefront</generalStoreName>
6   </configuration>
7   <manageVoucher>
8     <tabUrl>https://site.com/pageorder</tabUrl>
9   </manageVoucher>
10  <portal>
11    <cartTabs>
12      <tab>
13        <tabID>57</tabID>
14      </tab>
15    </cartTabs>
16    <checkoutTabs>
17      <tab>
18        <tabID>61</tabID>
19      </tab>
20    </checkoutTabs>
21    <manageOrderTabs>
22      <tab>
23        <tabID>62</tabID>
24      </tab>
25    </manageOrderTabs>
26    <manageVoucherTabs>
27      <tab>
28        <tabID>174</tabID>
29      </tab>
30    </manageVoucherTabs>
31    <portalAliases>
32      <portalAlias>
33        <cultureCode></cultureCode>
34        <httpAlias>site.com</httpAlias>
35        <isPrimary>true</isPrimary>
36        <portalAliasID>1</portalAliasID>
37      </portalAlias>
38    </portalAliases>
39    <portalID>0</portalID>
40  </portal>
41  <salesOrder>
42    <billingCity>Beverly Hills</billingCity>
43    <billingCompany>Revindex</billingCompany>
44    <billingCountryCode>US</billingCountryCode>
45    <billingCountryName>United States</billingCountryName>
46    <billingEmail>text@example.com</billingEmail>
47    <billingFirstName>John</billingFirstName>
48    <billingLastName>Doe</billingLastName>
49    <billingPhone>111-111-1111</billingPhone>
50    <billingPostalCode>90210</billingPostalCode>
51    <billingStreet>1 Melrose</billingStreet>
52    <billingSubdivisionCode>US-CA</billingSubdivisionCode>
53    <billingSubdivisionName>California</billingSubdivisionName>
54    <businessTaxNumber>GB 123456789</businessTaxNumber>
55    <couponCodes>
56      <couponCode>free2</couponCode>
57    </couponCodes>
58    <cultureCode>en-US</cultureCode>
59    <currency>
60      <currencySymbol>$</currencySymbol>
61      <isoCurrencySymbol>USD</isoCurrencySymbol>
62    </currency>
63    <currencyCultureCode>en-US</currencyCultureCode>
64    <dynamicFormResult>
65      <fields>
66        <field id="CustomName">Name1</field>
67        <field id="CustomText">MyText</field>
```



```
68     <field id="CustomColor">
69         <selected>Red</selected>
70         <selected>Blue</selected>
71     </field>
72     <field id="CustomSize">
73         <selected>XL</selected>
74     </field>
75 </fields>
76 </dynamicFormResult>
77 <exchangeRate>1.0000</exchangeRate>
78 <formattedSubTotalAmount>$10.00</formattedSubTotalAmount>
79 <formattedTotalAmount>$20.00</formattedTotalAmount>
80 <formattedTotalHandlingAmount>$9.00</formattedTotalHandlingAmount>
81 <formattedTotalSalesOrderDetailDiscountAmount>$0.00</formattedTotalSalesOrderDetailDiscountAmount>
82 <formattedTotalSavingsAmount>$0.00</formattedTotalSavingsAmount>
83 <formattedTotalShippingAmount>$1.00</formattedTotalShippingAmount>
84 <formattedTotalTaxAmount></formattedTotalTaxAmount>
85 <handlingAmount>9.00</handlingAmount>
86 <handlingDiscountAmount>0</handlingDiscountAmount>
87 <orderDate>2001-01-01T12:00:00</orderDate>
88 <origin>1</origin>
89 <parentSalesOrderID></parentSalesOrderID>
90 <purchaseOrderNumber></purchaseOrderNumber>
91 <rewardsPointsQualified>0</rewardsPointsQualified>
92 <salesOrderGUID>F2CB78A0-5B3B-489a-9E62-006372ACAE34</salesOrderGUID>
93 <salesOrderNumber>SA1000</salesOrderNumber>
94 <salesPaymentStatus>1</salesPaymentStatus>
95 <seller>
96     <city>Beverley Hills</city>
97     <countryCode>US</countryCode>
98     <email>test@example.com</email>
99     <phone>111-111-1111</phone>
100    <postalCode>90210</postalCode>
101    <street>1 Melrose</street>
102    <subdivisionCode>US-CA</subdivisionCode>
103 </seller>
104 <sellerID>1</sellerID>
105 <shippingAmount>1.00</shippingAmount>
106 <shippingCity>Beverley Hills</shippingCity>
107 <shippingCompany>Revindex</shippingCompany>
108 <shippingCountryCode>US</shippingCountryCode>
109 <shippingCountryName>United States</shippingCountryName>
110 <shippingDiscountAmount>0</shippingDiscountAmount>
111 <shippingEmail>text@example.com</shippingEmail>
112 <shippingFirstName>John</shippingFirstName>
113 <shippingLastName>Doe</shippingLastName>
114 <shippingMethod>
115     <name>Ground</name>
116 </shippingMethod>
117 <shippingMethodID>2</shippingMethodID>
118 <shippingPhone>111-111-1111</shippingPhone>
119 <shippingPostalCode>90210</shippingPostalCode>
120 <shippingStatus>1</shippingStatus>
121 <shippingStreet>1 Melrose</shippingStreet>
122 <shippingSubdivisionCode>US-CA</shippingSubdivisionCode>
123 <shippingSubdivisionName>California</shippingSubdivisionName>
124 <shippingTrackingCode>GH88888</shippingTrackingCode>
125 <status>2</status>
126 <subTotalAmount>10.00</subTotalAmount>
127 <subTotalAmountWithTax>10.00</subTotalAmountWithTax>
128 <taxAmount1>0.00</taxAmount1>
129 <taxAmount2>0.00</taxAmount2>
130 <taxAmount3>0.00</taxAmount3>
131 <taxAmount4>0.00</taxAmount4>
132 <taxAmount5>0.00</taxAmount5>
133 <taxDiscountAmount>0</taxDiscountAmount>
134 <totalAmount>20.00</totalAmount>
135 <totalHandlingAmount>9.00</totalHandlingAmount>
136 <totalHandlingAmountWithTax>9.00</totalHandlingAmountWithTax>
137 <totalSalesOrderDetailDiscountAmount>0.00</totalSalesOrderDetailDiscountAmount>
138 <totalSavingsAmount>0.00</totalSavingsAmount>
139 <totalShippingAmount>1.00</totalShippingAmount>
140 <totalShippingAmountWithTax>1.00</totalShippingAmountWithTax>
141 <userHostAddress>127.0.0.1</userHostAddress>
142 <warehouse>
143     <city>Beverley Hills</city>
144     <countryCode>US</countryCode>
145     <email></email>
146     <phone></phone>
147     <postalCode>90210</postalCode>
148     <street>1 Melrose</street>
149     <subdivisionCode>US-CA</subdivisionCode>
150 </warehouse>
151 <warehouseID>1</warehouseID>
152 </salesOrder>
153 <user>
154     <email>user@address.com</email>
155     <firstName>John</firstName>
156     <lastName>Doe</lastName>
157     <profile>
158         <profileProperties>
159             <Biography></Biography>
```

```
160     <Cell></Cell>
161     <City>Beverley Hills</City>
162     <Country>United States</Country>
163     <Fax></Fax>
164     <FirstName>John</FirstName>
165     <IM></IM>
166     <LastName>Doe</LastName>
167     <MiddleName></MiddleName>
168     <Photo></Photo>
169     <PostalCode>90210</PostalCode>
170     <PreferredLocale>en-US</PreferredLocale>
171     <Prefix></Prefix>
172     <Region>California</Region>
173     <Street>1 Melrose</Street>
174     <Suffix></Suffix>
175     <Telephone>111-111-1111</Telephone>
176     <TimeZone>0</TimeZone>
177     <Unit></Unit>
178     <Website></Website>
179 </profileProperties>
180 </profile>
181 <roles>
182     <role>Role1</role>
183     <role>Role2</role>
184 </roles>
185 <userHostAddress>127.0.0.1</userHostAddress>
186 <userID>1</userID>
187 <username>host</username>
188 </user>
189 <vouchers>
190     <voucher>
191         <activeAmount>10.00</activeAmount>
192         <amount>10.0000</amount>
193         <code>VKM02XTJKPZUNGPB</code>
194         <formattedActiveAmount>$10.00</formattedActiveAmount>
195         <initialAmount>10.0000</initialAmount>
196         <issueDate>2013-10-23T10:17:34</issueDate>
197         <status>2</status>
198         <voucherDefinitionID>4</voucherDefinitionID>
199     </voucher>
200 </vouchers>
201 </in>
```

# How to troubleshoot email not receiving

Most email related problems have to do with improper configuration. Please ensure you have followed the steps below:

1. Most email problems are due to invalid permission with your SMTP provider. Permission issues can range from incorrect credentials, quota reached or your SMTP server does not allow sending email from/to a certain address. In particular, many SMTP providers will disallow sending email from a different domain than its own (e.g. you may not be allowed to use the Hotmail SMTP server to send email pretending to be from @another.com domain).

As host user, verify you have a valid SMTP server settings under the persona bar's **Settings > Servers** page. Look for the **SMTP Server** tab. Click **Test SMTP Settings** by sending yourself an email and check for errors. You may need to verify the persona bar's **Manage > Admin Logs** to see if any error was recorded there. Always make sure to check your spam box in case the email falls into the trap.

By default, the site will send an email using the primary administrator's address of the site to the current logged in user. The primary administrator is the user configured under **Settings > Security**. If you still don't receive an email, try changing the email address of the primary administrator so that it sends a test email from a different address (try with an address that matches your SMTP domain. For example, try @gmail.com if you're using the Gmail SMTP server). Similarly, try changing your current logged in user's email address to send yourself a test email.

2. Verify you have configured a valid email recipient and sender addresses under the Storefront's **Configuration > General** menu.
3. Make sure you enabled the appropriate order alert, receipt or invoice under **Configuration > Communication** menu.
4. If you customized your email templates, make sure the tags are matching and properly closed. Try resetting to the default template and resend the email. If you're using a **Custom rule** for your template, make sure your email templates are valid by performing a **Run test** on the template first. It should return a success message. Anytime you suspect a typo error, restore using the default email template to ensure it's not a template issue that is uncaught by the screen test.
5. Verify your site's **Admin > Event viewer** page for any email errors. You can always make a test purchase under your own account and test sending emails to yourself. If you need to resend a receipt or invoice, you can also force the system to send email from the **Sales > Orders** menu in the action button.

# How to make HTML editor behave

If you're editing your email templates using the HTML editor on your site, you may want to change the editor settings to prevent the designer from over aggressively modifying your HTML code.

1. Login as the superuser and go to the **Host > HTML Editor Manager** page.
2. Select Everyone and uncheck the RemoveScripts and MakeURLsAbsolute settings under Content Filters.
3. Also, select the Enable Relative URL Links checkbox to allow it.
4. Repeat for Users and Host if you have multiple configurations.

# Reports

Revindex Storefront comes with several useful standard reports out of the box such as:

- Low product inventory report
- Top selling products report
- Top paying customers report
- Daily sales activity report
- Monthly sales activity report
- Payment reconciliation report
- Coupon usage report
- and many more...

Many of the reports can be filtered by predefined criteria and may display colorful graphs.

Name	Report group	Active	Standard	Select	Clone
Daily sales order detail performance	Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone
Daily sales order performance	Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone
Low product inventory	Catalog	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone
Monthly sales order detail performance	Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone
Monthly sales order performance	Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone
Sales orders by date	Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone
Sales payments reconciliation by date	Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone
Top coupon usage	Marketing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone
Top paying customers by sales orders	Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone
Top selling products	Catalog	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Select	Clone

[Add new](#)

---

General

Data source

Parameter

Visualizer

Report definition ID:

14

Report definition GUID:

8f140306-176c-4867-bd4b-1233bf26bd2a

Name:

Low product inventory

Description:

Show products where inventory is below threshold.

Active:

☒

Display in all portals:

☒

Report group:

Catalog

You can also create your own custom reports. For security reasons, only the **Host** superuser account can create or edit reports.

# How to create custom reports

You need to be logged in as a **Host** superuser to edit or create new reports. Standard reports cannot be edited.

1. The easiest way is to clone one of the existing reports and make the modifications. Alternatively, you can click on the **Add new** to create a new custom report from blank.
2. Give your report a name and optionally a description. Select the report group to determine where the report will show up under the Catalog, Sales, People or Marketing menu.
3. Enter one or more SQL SELECT statements in the **Data source** tab. You have full access to all the standard SQL commands including variables and temp tables. If you require any input parameters you can use the special @param placeholders. For example:

```
SELECT col1, col2 FROM MyTable WHERE col3 = @Param1 AND col4 = @Param2
```

```
SELECT col5, col6 FROM MyTable2 WHERE col8 = @Param1 AND col9 = @Param2
```

4. Add the matching input parameters required by your data source in the **Parameter** tab. The names must match exactly your @Param placeholder names. Parameters can be a form input or one of the predefined variables.
5. In the **Visualizer** tab, enter the HTML to render the report. The HTML can contain XSL Tokens (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/xsl-tokens/rvdwkpvm/section>) to extract the returned values from your SQL execution. Each SQL SELECT statement, will generate a data table under the dataSet node. For example, the XML input below is generate from your data source. Your XSL tokens can be used to extract the result set to render the HTML:

```
1 <in>
2   <dataSet>
3     <dataTable>
4       <dataRow>
5         <col1 dataType="int">...</col1>
6         <col2 dataType="nvarchar">...</col2>
7       </dataRow>
8       <dataRow>
9         <col1 dataType="int">...</col1>
10        <col2 dataType="nvarchar">...</col2>
11      </dataRow>
12    </dataTable>
13    <dataTable>
14      <dataRow>
15        <col5 dataType="boolean">...</col1>
16        <col5 dataType="nvarchar">...</col2>
17      </dataRow>
18      <dataRow>
19        <col4 dataType="boolean">...</col1>
20        <col5 dataType="nvarchar">...</col2>
21      </dataRow>
22    </dataTable>
23  </dataSet>
24 </in>
```

You can also include colorful graphics using Google charts (<https://developers.google.com/chart/>) simply by generating the correct Javascript statements needed to render the charts.

# How to export data from custom report

For many reasons, you may occasionally want to export the data out from the custom reports into a tabular or spreadsheet format for manipulation.

Custom reports are built using HTML and XSL tokens. You can render the data separately into a Javascript string that is hidden from the normal view. Simply include a button to retrieve the data to CSV and send to the window object using Javascript. For example, the following Javascript code can be used to trigger the download of the CSV file.

```
1 <script>
2 function downloadFile(fileName, data) {
3
4     var a = document.createElement("a");
5     if (navigator.msSaveBlob) {
6         navigator.msSaveBlob(new Blob([data], {
7             type: "text/csv"
8         }), fileName);
9     } else if ('download' in a) {
10        a.href = 'data:text/csv;charset=UTF-8,' + encodeURIComponent(data);
11        a.download = fileName;
12        document.body.appendChild(a);
13        setTimeout(function() {
14            a.click();
15            document.body.removeChild(a);
16        }, 100);
17    } else if (document.execCommand) {
18        var owin = window.open("about:blank", "_blank");
19        owin.document.write(data);
20        owin.document.close();
21        owin.document.execCommand('SaveAs', true, fileName);
22        owin.close();
23    }
24 }
25
26 function exportCsv() {
27     var data = "Order","Status\r\n";
28     {xsl:for-each select="&quot;/in/dataSet/dataTable/dataRow&quot; }
29     data += "{xsl:value-of select="SalesOrderNumber" /},"{xsl:value-of select="Status" /}"&quot;\r\n";
30     {/xsl:for-each}
31
32     downloadFile('Orders.csv', data);
33 }
34 </script>
35 <p><button class="btn btn-link" type="button" onclick="exportCsv()" style="float: right">Export</button></p>
36
```

You can find many examples online on how to use Javascript to export CSV. Some examples are shown here:

- Small JavaScript Library To Export JSON Data To CSV File – CSV-Export (<https://www.cssscript.com/small-javascript-library-to-export-json-data-to-csv-file-csv-export/>)
- StackOverflow: Export html table to csv (<https://stackoverflow.com/questions/15547198/export-html-table-to-csv>)



# Rewards points

As a merchant, you typically want to build loyal and repeat customers over time. A great way is to reward your customers with loyalty points for purchases made at your store. The customer can then redeem these accumulated points to buy more products and services from you.

You must first enable the **Rewards points** feature under **Configuration > General**. Once enabled, the rewards point can be configured from the **Configuration > Rewards point** screen. Once you enable rewards points, your product detail and checkout pages will show the number of points awarded to the customer for their purchase. When configuring the rewards point program, you need to understand the differences between the action of rewarding and redeeming. The merchant rewards the points to the customer (e.g. 1 point for every \$10 spent), whereas the customer redeems the points for purchases (e.g. if each point is worth \$0.01, then 1000 points equals to \$10 of money that can be used to pay during checkout).

- **Monetary value of each point** - This is the actual value of each point. When the customer is at the checkout page, he can use his points to pay. E.g. you can enter 0.01, which means 1 point equals to \$0.01 of your currency.
- **Reward points for orders** - Enable this if you want to reward customers with points for their purchases. Only product variants that have the rewards point enabled will qualify.
- **Reward points min order amount** - If a minimum order amount needs to be attained to be rewarded points.
- **Points to award per order unit amount** - The number of points to award for each currency unit spent on checkout for qualified products based on the order amount after discounts, but before shipping, handling and taxes. If the rate is equal to 1, then 1 point is awarded for each dollar spent. This rate can also be fractional to encourage customer to spend more. If the rate is 0.1, then 1 point is awarded for each 10 dollars spent, but if the customer spent 12 dollars, only 1 point is awarded.
- **Reward point delay** - The number of days to delay rewarding the points for an order purchased. This is a security measure to protect the merchant from fraudulent customers who purchase products solely to earn points and returning the products after the points have been redeemed. For example, if you have a 30 days refund policy, you may want to set the delay equal to 30 days.
- **Min points to allow redeeming** - The minimum number of points the customer must have to be allowed to redeem for purchases.
- **Points expiration** - If the points should expire after the period of inactivity

You can decide if certain products do not participate in the rewards point program by unchecking the **Enable rewards point** checkbox on the product variant. You can also enter a custom points value if you want to reward a different number of points for the purchase of a particular product. If not specified, the Storefront will calculate the number of points to award based on the selling price of the product.

If the rewards point program is enabled, points are rewarded when the order has reached the Completed status or the payment has reached the Paid status. By default, for security purposes, orders and payments immediately after checkout are never put in those states. You can use the Place order action rule to automatically set the order to Completed and payment to Paid statuses if needed. If a delay is set, the points will automatically be rewarded after the elapsed time has passed. Please see [How to force order and payment status \(https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section\)](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section) for more information on changing order status.

You can modify the current number of points belonging to the customer from the **Sales > Rewards points** screen. You can also modify the number of points earned by the order from the **Sales > Orders** screen.

The customer can view their current points balance from the **Manage Rewards Point** module control. This will show the number of points active and pending as well as any expiry date.

Points internally have an intrinsic monetary value and are treated in similar way as any other form of payment. To allow customers to redeem their points, you must therefore enable Rewards Points from the **Configuration > Payment** menu.

# Analytics

Revindex Storefront supports Web site tracking of ecommerce transactions using Google Analytics (<http://www.google.ca/analytics/>). This feature allows you to track your site traffic and report on products purchased and order amounts.

You must first have a valid Google Analytics account. You also need to enable ecommerce tracking:

1. Click the **Admin** tab at the top right of any screen in Google Analytics.
2. From the **Account Administration** screen, click the name of the account and then the name of the property that has the profile you want to enable **Ecommerce Tracking** for.
3. Use the **Profile** drop down menu to select the profile you want. Click the **Profile Settings** tab. Under the **E-Commerce Settings** section, select **Yes, an E-Commerce Site/App** and save.

For newer DNN 9 and above, under your Web site's **Portals\0** folder (where 0 is your portal ID). Make sure you create or upload **GoogleAnalytics.config** file with the following content. Replace the value of the tracking ID (e.g. GTM-XXXXXXX) with your Google assigned Tracking ID.

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <AnalyticsConfig xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
3   <Settings>
4     <AnalyticsSetting>
5       <SettingName>TrackingId</SettingName>
6       <SettingValue>GTM-XXXXXX</SettingValue>
7     </AnalyticsSetting>
8     <AnalyticsSetting>
9       <SettingName>UrlParameter</SettingName>
10      <SettingValue />
11    </AnalyticsSetting>
12    <AnalyticsSetting>
13      <SettingName>TrackForAdmin</SettingName>
14      <SettingValue>true</SettingValue>
15    </AnalyticsSetting>
16  </Settings>
17 </AnalyticsConfig>
```

For older DNN version 8 or under, you can simply enable Google Analytics tracking under your Web site's **Admin > Google Analytics** page. Enter the Google Analytics **Web Property ID** (UA-XXXXX-Y) for your **Tracking ID** value. This will enable analytics tracking for all your Web pages.

Finally, to enable ecommerce transaction tracking, you need to enable the **Analytics** feature under **Configuration > General**. You can then enable the Google Analytics under the Storefront's **Configuration > Analytics** menu.

If you have everything properly setup, the system will automatically inject the Google Analytics tracking code in the confirmation page after checkout. You should find a snippet Javascript code that resembles "`_gaq.push('_addTrans' ....`" or `ga('ecommerce:addTransaction', ...` in your HTML source.

## Google Universal Analytics

Google recently launched a new analytics engine and is recommending all users to move to the new platform. The Storefront is capable of emitting code that supports both the Classic and new Universal Analytics code. To enable the new Google Universal Analytics code, you must update the code contained in your **SiteAnalytics.config** file located under your Web

site's root folder or perform the update from the **Host > Configuration Manager** page (select "SiteAnalytics.config").

```
1 <?xml version="1.0" encoding="utf-8" ?>
2 <AnalyticsEngineConfig>
3   <Engines>
4     <AnalyticsEngine>
5       <EngineType>DotNetNuke.Services.Analytics.GoogleAnalyticsEngine, DotNetNuke</EngineType>
6       <ElementId>Head</ElementId>
7       <InjectTop>False</InjectTop>
8       <ScriptTemplate>
9         <![CDATA[
10
11           <script type="text/javascript">
12
13             (function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
14               (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
15               m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
16             })(window,document,'script','//www.google-analytics.com/analytics.js','ga');
17
18             ga('create', '[TRACKING_ID]');
19             ga('send', 'pageview');
20
21           </script>
22         ]]>
23       </ScriptTemplate>
24     </AnalyticsEngine>
25   </Engines>
26 </AnalyticsEngineConfig>
```

## Google Tag Manager

If you prefer to use Google Tag Manager to manage all their different tracking codes, you can modify the SiteAnalytics.config file to include your Google tag manager codes.

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <AnalyticsEngineConfig>
3   <Engines>
4     <AnalyticsEngine>
5       <EngineType>DotNetNuke.Services.Analytics.GoogleAnalyticsEngine, DotNetNuke</EngineType>
6       <ElementId>Head</ElementId>
7       <InjectTop>True</InjectTop>
8       <ScriptTemplate><![CDATA[
9
10 <!-- Google Tag Manager -->
11 <script>(function(w,d,s,l,i){w[l]=w[l]||[];w[l].push({'gtm.start':
12   new Date().getTime(),event:'gtm.js'});var f=d.getElementsByTagName(s)[0],
13   j=d.createElement(s),dl=l!='dataLayer'?'&l='+l:'';j.async=true;j.src=
14   'https://www.googletagmanager.com/gtm.js?id='+i+dl;f.parentNode.insertBefore(j,f);
15   })(window,document,'script','dataLayer','[TRACKING_ID]');</script>
16 <!-- End Google Tag Manager -->
17
18   ]]></ScriptTemplate>
19 </AnalyticsEngine>
20 <AnalyticsEngine>
21   <EngineType>DotNetNuke.Services.Analytics.GoogleAnalyticsEngine, DotNetNuke</EngineType>
22   <ElementId>Body</ElementId>
23   <InjectTop>True</InjectTop>
24   <ScriptTemplate><![CDATA[
25
26 <!-- Google Tag Manager (noscript) -->
27 <noscript><iframe src="https://www.googletagmanager.com/ns.html?id=[TRACKING_ID]"
28   height="0" width="0" style="display:none;visibility:hidden"></iframe></noscript>
29 <!-- End Google Tag Manager (noscript) -->
30
31   ]]></ScriptTemplate>
32 </AnalyticsEngine>
33 </Engines>
34 </AnalyticsEngineConfig>
```

# Sitemap

Sitemap is a special XML file that provides explicit URLs to search engine crawlers to help index your site. A good sitemap file plays an important role in your overall SEO success. It should include all your public Web pages as well as products you sell.

Reindex Storefront automatically includes all your published products into your portal sitemap file. There is nothing to configure. You can verify your sitemap under your persona bar's **Settings > SEO** page. Sitemap files are cached, therefore, you may need to clear the cache data to see the changes the first time. In addition, you can submit your sitemap file to Google or just wait for Google to periodically index your site and read your sitemap file.

# Affiliates

Revindex Storefront will automatically track any online sales referrals configured in your DNN system allowing you to eventually pay out commissions to your affiliate partners on pay-for-performance basis. Affiliates are a great way to generate more sales easily and cost effectively.

The Storefront integrates with DNN standard affiliate management system making it possible to track affiliate referrals arriving on any of your Web pages. For example, your affiliate partner may send customers to your home page or to a special promotion page you created. In both cases, your affiliate will be correctly tracked and credited for the completed sale.

To configure the affiliate tracking, please follow these steps listed below to create your vendor record. A vendor is any partner, company or individual who has a working relationship with your business.

1. You must first install the DNN Vendors module (<https://github.com/DNNCommunity/DNN.Vendors>) if you haven't already installed it.
2. From the persona bar, go to the **Manage > Vendors** page.
3. Click on **Add New Vendor**.
4. Enter all the required information for your new vendor.
5. Click **Update**.
6. Select the vendor you just created.
7. Towards the bottom, under the Affiliate Referrals section, click on **Add New Affiliate**.
8. Click **Update**.
9. Select the newly created affiliate.
10. Click on **Send Notification**. The vendor will receive an email with a link that can be used to track his referrals to your site.

The vendor is now your affiliate partner. He can use the link to redirect visitors to your site and earn sales commission. The email containing the link has an embedded Affiliate ID that looks like this:

`http://site.com/Default.aspx?AffiliateId=1`

In earlier versions of DNN 7 and older, the AffiliateID query parameter will automatically persist to a cookie on any landing page. From newer DNN 8, you need to add your own Javascript code to detect the Affiliate ID query parameter and cookiefy to the browser. You can use the following script to cookiefy the Affiliate ID value. This code should be placed in any page you want to be used as your landing page. Please note the script uses a default value of 30 days for tracking. You can increase this value if you want to track for longer than 30 days.

```
1
2 <script>
3 $(document).ready(function() {
4
5     var parsedUrl = new URL(window.location.href)
```

```

6 | var affiliateID = null
7 |
8 | if (parsedUrl.pathname.match(/affiliateid\/(\d+)/i))
9 |     affiliateID = parsedUrl.pathname.match(/affiliateid\/(\d+)/i)[1]
10 | else if (parsedUrl.searchParams.get("affiliateid"))
11 |     affiliateID = parsedUrl.searchParams.get("affiliateid")
12 |
13 | if (affiliateID) {
14 |     var d = new Date();
15 |     d.setDate(d.getDate() + 30);
16 |     var expires = "expires=" + d.toUTCString();
17 |     document.cookie = "AffiliateId=" + affiliateID + ";" + expires + ";path=/";
18 | }
19 | })
20 | </script>
21 |

```

At this point, your affiliate partner can refer the visitor to any designated landing page on your site as long as the AffiliateID parameter is attached to the URL. For example, to direct the visitor to one of your product pages, you can attach the AffiliateID parameter to the URL as shown:

`http://site.com/rvdsfpid/coffee-40/language/Product.aspx?AffiliateID=1`

Once the AffiliateID parameter is detected by DNN, the visitor can freely visit any other page and will be tracked for the duration determined by your DNN site. Any sales completed by the visitor is now associated with the Affiliate ID.

Commissions can be paid out periodically at your own discretion via PayPal, check, wire transfer, etc. You can view the "Affiliate performance" report from the Storefront **Marketing > Reports** menu to find out how many sales orders and the total amount (excluding shipping, handling and taxes) are attributed to the vendor. You can simply multiply the number by your commission rate to determine the commission owed to your vendor. You can also create custom reports under **Configuration > Reports** menu to get more detailed information about your affiliates or automatically calculate the commissions if needed. For more information, please see [How to create custom reports](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-custom-reports/rvdwkpvm/section) (https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-custom-reports/rvdwkpvm/section).

## Address validation

The Storefront supports address validation using real-time providers (e.g. Avalara). Once configured, any address entered by the end user will be validated and automatically corrected to a standard format. For example, depending on the provider implementation, the address "1 jones E, raleihg, North Carolina, 27601, United States" entered will validate and automatically be corrected to "1 E Jones St, Raleigh, North Carolina, 27601-1021, United States". Address validation can help ensure addresses are deliverable and avoid shipping losses. It is also a great way to ensure your data is clean and ready for any future business intelligence reports you may run that require accurate address information on file.

You must first enable the **Address validation** feature under **Configuration > General**. Once enabled, you can configure the use of address validation under **Configuration > Address validation**. Make sure to enter the account credentials by clicking on the edit icon for your selected provider.

Please contact us if you don't see the address validation provider you like to use.

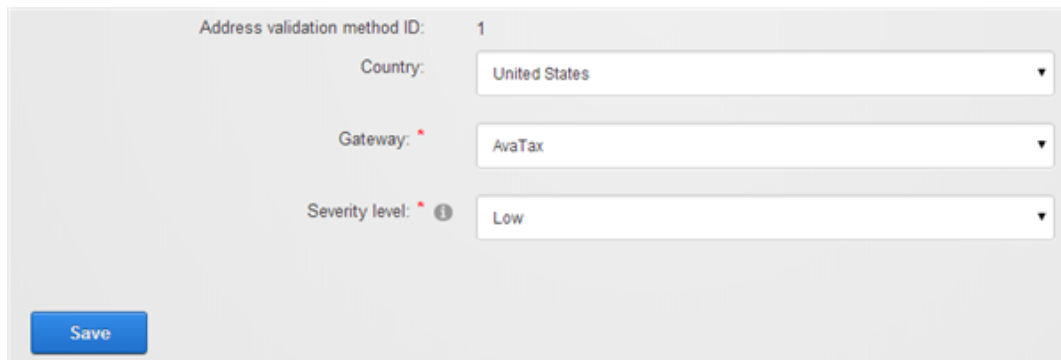


# Avalara

Avalara (<http://www.avalara.com/>) AvaTax provides real-time address validation for U.S and Canadian addresses. The following fields are required:

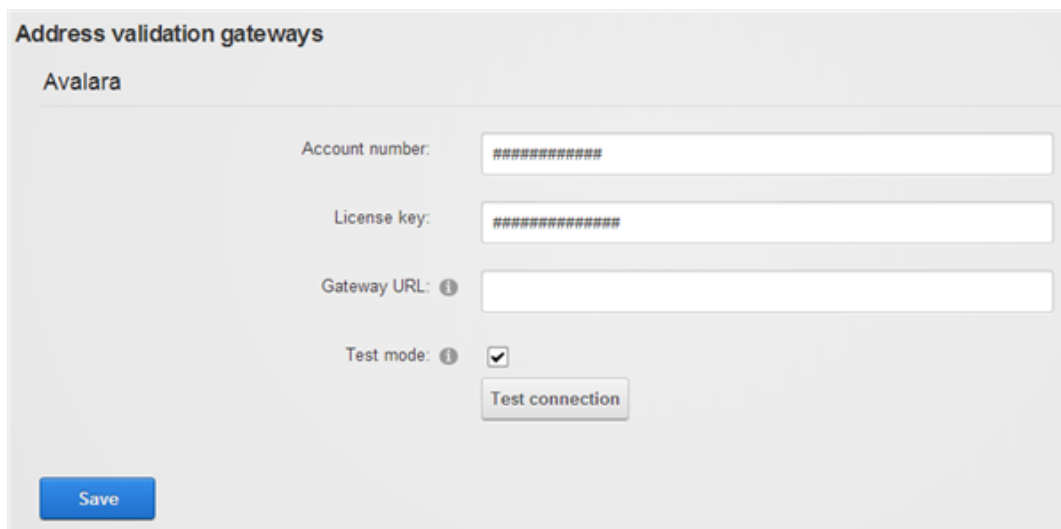
1. **Account number**
2. **License key**

You can configure how the address validation should work under **Configuration > Address validation**. Click **Add new** to create a new address validation method for the desired country and set the gateway to "AvaTax".



This screenshot shows the configuration form for an address validation method. The form is titled 'Address validation method ID: 1'. It contains three dropdown menus: 'Country' set to 'United States', 'Gateway' set to 'AvaTax', and 'Severity level' set to 'Low'. There is a red asterisk next to the 'Gateway' and 'Severity level' labels. A blue 'Save' button is located at the bottom left of the form.

Click on the edit icon to enter the account credentials for your provider. Click on **Test connection** to make sure your credentials work.



This screenshot shows the 'Address validation gateways' form for the 'Avalara' provider. The form has a title bar 'Address validation gateways' and a sub-header 'Avalara'. It contains four input fields: 'Account number' (masked with asterisks), 'License key' (masked with asterisks), 'Gateway URL' (with an information icon), and 'Test mode' (with a checked checkbox and an information icon). A 'Test connection' button is located below the 'Test mode' checkbox. A blue 'Save' button is at the bottom left.

The system will attempt to validate the address for the selected country and if a valid match is found, it will automatically standardize the address format. The severity level determines how to treat an invalid address that cannot be automatically corrected by the system. High - Require user to correct the invalid address before proceeding further. Normal - Warn user of the invalid address, but allow the user to proceed. Low - Invalid address is silently accepted.

# Fraud risk

Revindex Storefront can help increase your merchant profits by reducing chargebacks and improving operation efficiency using powerful fraud protection technology. If enabled, the Storefront will display the fraud score for every order completed through checkout. The fraud score ranges between (high risk) 0 to 100 (low risk) and is color coded for low, moderate and high risk. As a merchant, you'll be able to confidently reject suspicious orders before shipping and avoid incurring expensive losses to your business.

General	Billing	Shipping	Order detail	Custom field	Payment
Order ID: 1739					
Order number: 1739					
Order GUID: c771bc0b-9605-4d98-9652-1c59c362faef					
Fraud score: ⓘ <b>95</b>					
Username: <input type="text" value="host"/>					
User first Name: John					
User last Name: Doe					

The Storefront supports several different fraud scoring providers. These providers maintain a large aggregate of blacklist data from multiple reliable sources. Using sophisticated algorithm and statistics, they're able to filter out suspicious transactions by inspecting the IP location, email, credit card numbers and a host of other inputs that are fraudulent but would otherwise look normal to an untrained eye.

The more you use these providers, the better it gets as their system will automatically tune and learn from the aggregate data collected from your business transactions. Since one aspect of fraud detection is often associated with the customer's IP location, the Storefront has automatic built-in mechanism to avoid querying the fraud score for orders placed by employees of your store. For example, as a store operator, you may occasionally place an order on behalf of the customer over the phone by logging into the customer's account. The Storefront will automatically disable fraud score for this order to avoid penalizing the customer because your IP address would have been registered as different and negatively impact the customer's future risk score. Therefore, if you're just setting up and want to test the fraud score feature, make sure you test it with a different browser than the one running the Storefront console or clear your browser cache first.

You must first enable the **Risk** feature under **Configuration > General**. Once enabled, you can enable the fraud protection under **Configuration > Risk** menu. Remember to click the edit icon to provide the account credentials for your selected provider.

Please contact us if you don't see the fraud screening provider you like to use.

# FraudLabs Pro

FraudLabs Pro (<http://fraudlabspro.com/>) provides a cost effective fraud screening service with the first 500 queries per month are free. Please contact the provider for more pricing information. The following fields are required:

1. **API Key**

# Sift Science

Sift Science (<https://siftscience.com/>) provides an impressive and affordable fraud screening service with the first 10,000 transactions per month are free. Please contact the provider for more pricing information. The following fields are required:

1. **API Key**
2. **Javascript snippet key**

# Channels

A good way to increase your sales is to list your products for sale on popular sites like eBay, etc. The Storefront makes it easy for you to publish and manage your products on 3rd party channels all in a central place saving you time and avoiding double entry mistakes.

You must first enable **Channel** feature under **Configuration > General** settings. Once enabled, you can configure the channel under **Configuration > Channels** menu. Make sure to enter the necessary application keys by clicking on the edit icon for the appropriate channels.

Please read How to sell on eBay (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-sell-on-ebay/rvdwkpvm/section>) to see how easy it is to publish a product to a 3rd party channel.

Please contact us if you don't see the channel provider you like to use.

# eBay

eBay (<http://www.ebay.com/>) is the world's largest auction marketplace selling to millions of users worldwide. The following fields are required:

- Dev ID
- App ID
- Cert ID
- Auth token

You must first register an eBay seller account (<http://pages.ebay.com/help/sell/sell-getstarted.html>). Once registered, you then must also register an account with eBay Developer Program (<http://developer.ebay.com/>). Check your email and follow the instructions to activate your account.

From your developer account, you can get your production application keys from the **My Account** page. You can perform tests by generating sandbox keys instead.

To obtain your auth tokens, click on **Get a User Token** under the tools panel. Select the desired environment and key set to generate your token. You may be directed to sign into your seller account. Once logged in, click on **I Agree** to allow eBay to connect with the Storefront application. You will be directed to a page to obtain your user tokens. Click on **Save Token** to complete the step.

Currently only a limited number of eBay features are supported by the Storefront. Please perform your own testing first to ensure it meets your needs. Please note eBay may charge additional fees for enhance listings (e.g. list on more than two categories, etc.):

- Support eBay U.S and Canada only. No eBay Motors.
- Limited to certain basic product types and categories (e.g. gift certificates, downloadable products, donations, etc. are not supported).
- Multiple variants must be published separately.
- Limited to certain basic product fields are published to eBay.
- Limited to certain basic product fields are update-able on eBay.
- Support certain shipping services. Country restrictions may apply.
- Support a limited number of payment methods (credit card, PayPal, etc.)
- U.S dollar currency only.
- Product inventory is not tracked.

## Accounting

The Storefront can sync customers, products, orders and payments to various accounting software (e.g. QuickBooks, Xero) so you don't have to perform double entry into your accounting and bookkeeping system. Please note you may require purchasing additional license or 3rd party software for these features to work.

Please contact us if you don't see an accounting provider you like to use.

## QuickBooks

You can sync customers, products and orders between the Storefront and QuickBooks (Online or Desktop) using a 3rd party connector sold by JMA Technologies (<http://www.jmawebtechstore.com/?affiliateid=6>). Please contact JMA Technologies for more information about their QuickBooks connector use with Revindex Storefront.



# Xero

Xero (<https://www.xero.com>) is an online accounting and bookkeeping software that helps small businesses keep track of their invoices and payments. The following fields are required. Please read below for information on how to obtain the certificate file and register your application with Xero first.

1. **Consumer Key** - the consumer key from Xero API.
2. **Consumer Secret** - the consumer secret from Xero API.
3. **Certificate file** - Enter the full physical path to the pfx certificate file on your system. The file path should be readable by the calling application (e.g. C:\Temp\public\_privatekey.pfx file).

## Generate private/public key pair

1. Download and install free OpenSSL (<http://slproweb.com/products/Win32OpenSSL.html>) utility.
2. From the command prompt, go to the OpenSSL \bin folder where you installed or extracted the software.
3. Run the following command to set your OpenSSL configuration path:

```
set OPENSSL_CONF=c:\<OpenSSL folder path>\bin\openssl.cfg
```

4. Run the following command to generate the private key:

```
openssl genrsa -out privatekey.pem 1024
```

5. Run the following command to generate the public key using the previously generated private key. Enter a large number of days if you want to avoid changing keys frequently:

```
openssl req -newkey rsa:1024 -x509 -key privatekey.pem -out publickey.cer -days 3650
```

6. Run the following command to export your public and private key into a single pfx file. Leave the password field blank when prompted.

```
openssl pkcs12 -export -out public_privatekey.pfx -inkey privatekey.pem -in publickey.cer
```

## Set up a private application in Xero

1. Login to Xero API (<https://api.xero.com>)
2. Under **My Applications** tab, add a new application.
3. Select "Private". Give your application a name.
4. Paste the content of your public key that you generated earlier (publickey.cer file).
5. Agree to the terms and **Save**.

6. Copy the **Consumer Key** and **Consumer Secret** tokens.

## Chart of Account

Like most accounting software, Xero allows you to create different accounts to track various activities. Orders and payments sent to Xero need to be associated with accounts in your Xero's Chart of Accounts. It's very important that the tax rate associated with the Xero account needs to match the tax rate setup in the Storefront unless you allow the sync to override the tax.

- Handling account - Used to track handling amount
- Payment account - Used to track payments made to an order
- Sales account - Used to track sales order details
- Shipping account - Used to track shipping amount

## Limitations

- Xero API is limited to 60 requests/sec and a maximum of 1000 requests/day.
- One-way sync of Completed orders from Storefront to Xero.
- After initial sync, changes made to an order will not be synced to Xero. Only order cancellations will be updated once to Xero. You cannot undo a cancellation.
- Xero base currency should match primary currency in Storefront.
- If `OverrideTax` is false, the tax rate set per account must accurately match the tax calculation in the Storefront.
- No product inventory sync.

# Catalog

# Categories

Categories allow you to group the products for sale making it easier for your users to browse your shopping cart. Revindex Storefront supports unlimited number of multi-level categories. Individual product can be assigned to one or more categories. You can add new categories from the **Catalog > Categories** menu. Click **Add new** to create a new category and give it a name. Select if this category has a parent category to create a sub-level category.

Each category can have a custom **Display template** that changes the look-and-feel of the **Product List** page. You can also store additional information about the category using the **Extension** field and XML data.

## Category availability

The category availability determines if the category can be displayed under what conditions. You must first enable the **Availability** feature under **Configuration > Category** menu.

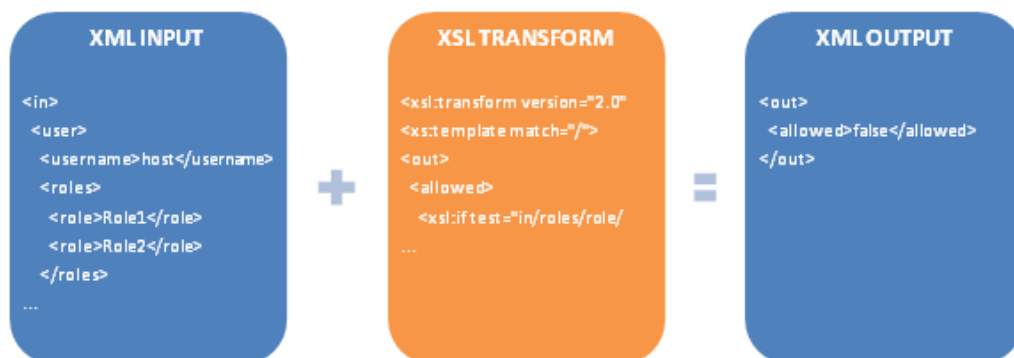
The Storefront comes with several predefined rules such as allowing a category to be shown based on user location or security role.

The screenshot shows the 'Availability' tab in a configuration menu. It includes tabs for General, Description, Display, Availability (selected), Gallery, SEO, Product, and Extension. The 'Availability rule' is set to 'Basic'. The 'Role match' section has two radio buttons: 'Allow all except selected below' (selected) and 'Allow only those selected below'. The 'Roles' section lists several roles with checkboxes: Administrators, Registered Users, Role 1, Role 1.5, Role 2, Subscribers, and Unverified Users. A 'Save' button is at the bottom left.

The category availability rule can also use XSL transform to determine whether this category is available. For example, you may restrict the category to wholesale members on your site with a certain security role. The expected output should return "true" to indicate this product is available for sale under the input conditions, otherwise "false" if disallowed.

You can store additional information about the category using the **Extension** field and XML data. The extension information automatically becomes available for query in your business rules.

The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Distributors

If you source your products from distributors, you can keep track of them by creating a distributor entry in the system.

You must first enable the **Distributor** feature under **Configuration > General**. Once enabled, you can manage distributors from the **Catalog > Distributors** menu. Click **Add New** and give it a name. You can store additional information about the distributor using the **Extension** field and XML data. Once saved, you can now assign this new distributor to your individual products.

# Manufacturers

You can keep track of manufacturers of your product by creating a manufacturer entry in the system.

You must first enable the **Manufacturer** feature under **Configuration > General**. Once enabled, you can manage manufacturer from the **Catalog > Manufacturers** menu. Click **Add new** and give it a name. You can store additional information about the manufacturer using the **Extension** field and XML data. Once saved, you can now assign this new manufacturer to your individual products. Associating a product variant to a manufacturer will allow customers to quickly browse products at your store by manufacturers.

# Warehouses

For certain businesses, the products may not be kept and shipped out from the same physical address as your store. These products are kept at one or many warehouses for logistic reasons. For example, you sell flowers that are held in the East and West coast warehouses to reduce shipping cost and delivery time. Drop-shipping is another common practice where the physical product is shipped directly from the manufacturer's address and not from your store. Your shipping rule (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/shipping-rate/rvdwkpvm/section>) can take into account the warehouse location and charge a different amount based on the transit distance. Similarly, your shipping availability rule (<http://www.revindex.com/Resources/KnowledgeBase/RevindexStorefront/tabid/174/rvdwktid/warehouses-418/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/shipping-rate/rvdwkpvm/section>) can determine if only certain shipping methods are available depending on the warehouse origin (e.g. your East coast warehouse can ship by UPS only).


Furthermore, the shipping origin has important tax implications. In almost every U.S state, you are liable for tax collection based on where the product is shipped from (warehouse address, not your business address) and where it is ship to. Your tax rule (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/tax-methods/rvdwkpvm/section>) can charge a different tax rate based on the warehouse origin. Please see Order splitting (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/order-splitting/rvdwkpvm/section>) for more information on how orders are treated by warehouse.

The Storefront handles warehouse information to help optimize your shipping cost and delivery time while ensuring you are compliant with tax laws. It will also track the inventory by warehouse so you know exactly how many products are available in which warehouse at all times. You must first enable the **Warehouse** feature under **Configuration > General**. Please see Warehouse (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/warehouse/rvdwkpvm/section>) for more information on associating your products to your warehouses.



# Product attributes

Product attributes are used to define the characteristic or feature of a product (e.g. power rating, size, etc.) and are displayed in the Specifications tab of a product detail.



☐ Compare

Apple iPad Air

★★★★★

Price:

USD \$499.99

Points earn:

499

Color:

White

Storage:

16GB

32GB

Quantity: \*

1

Add to cart

Buy now

Add to wish list

Update

Overview

Specifications

Reviews

Dimensions

Product depth (cm): ⓘ

.8

Product height (cm): ⓘ

24

Product weight (g): ⓘ

469


Product width (cm): ⓘ


17

Product attributes are also displayed in the **Product Comparison** module control. See Product Comparison (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/product-comparison/rvdwkpvm/section>) for more information.

Remove
Remove

---





Product:	Apple iPad Air - White 16GB	Microsoft Surface Pro 3
Overall rating:	★★★★★	★★★★☆
Sale:		
Price:	USD \$499.99	USD \$849.99
MSRP:		
Save:		
Product #:		
Manufacturer:	Apple	Microsoft

**Dimensions**

Product depth (cm): ⓘ	.8	1.3
Product height (cm): ⓘ	24	17.7
Product weight (g): ⓘ	469	730
Product width (cm): ⓘ	17	26

It is also used in the **Product Filter** module control for refining results. See (<http://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/>) for more info.

Refine Results

Drought tolerant ⓘ

☐ Yes

Soil conditions ⓘ

☐ Adaptable

☐ Dry

☐ Humid

Product depth (cm) ⓘ

1

3

Product height (cm) ⓘ

17

45

Product weight (g) ⓘ

15

730

Product width (cm) ⓘ


26

75

Qty: 1

Add to cart

Buy now




Eco Tablet

This eco-friendly low-power consumption tablet is ideal for trekking in the woods while you search for wildlife habitats. Configure your hardware options.

★★★★☆

Price: USD \$199.00

See details




Rethink T-Shirt

Support the environment. Every dollar collected goes towards planting a tree in a devastated land. Prices vary by selected size.

★★★★★

Price: USD \$5.00

See details



October


This tree's foliage is a surety to

★★★★★

Price:

Qty:

Ad



Royal En

This ma maintain growing year.

★★★★★

Price:

Qty:

Ad

You must first enable the **Product attributes** feature under **Configuration > Product**. Once enabled, you can define product attributes under the **Catalog > Attribute groups** and **Catalog > Attribute definitions** menus.

## Groups

You can optionally create groups under **Catalog > Attribute groups** to classify similar attributes to make it easier for your customers to view the data. For example, if you define the attributes "Weight", "Height" and "Depth", you may want to classify these attributes under the "Dimensions" group.

# Definitions

Product attributes need to be defined first before they can be added to a product. You can create definitions under the **Catalog > Attributes definitions** menu.

You can classify the new attribute definition to one of the groups you created earlier under **Catalog > Attributes groups**.

It's important to pick the correct **Attribute type** (Boolean, Decimal, etc.) as it determines how it will be used in product comparison and for filtering products. For example, if you sell televisions, you may have an attribute definition called "HD Ready" and it would take the Boolean attribute type because the possible values are either Yes or No. Whereas, you can have another definition for "Weight" and it would take the Decimal attribute type because the weight can be any number.

You can also set the attribute definition to be **Published** if it should be shown to the customer, **Comparable** if it should be used in product comparison or **Filterable** if it should be used to filter against the product list.

# Products

Products (physical, virtual or services) are representation of items that are listed for sale on your store. For example, it could be shoes, downloadable e-book or perhaps a financial service you sell.

Do not think of a product is equal to exactly one physical object you sell. In fact, a product can be a bundle of items or can have many variations (e.g. Black, brown and white shoes can be represented as a single product even though there are 3 physical objects). Understanding that a product is simply a representation of the object(s) for sale will help you sell more because you will optimize your store to display products in tune with your customer's expectation (e.g. Normal customer behavior is to browse for the shoe they like first and then make conscious decision to pick the available colors).

Revindex Storefront is optimized to help you sell more using state-of the art features like SEO best practices, variants, unlimited images, product relationship, attributes, etc. that are only found in top e-commerce Web sites.

Products are managed from the **Catalog > Products** menu. You can search for an existing product or click **Add new** to create a new product. Each product can have a custom **Display template** that changes the look-and-feel of the **Product Detail** page.

DashboardCatalogSalesMarketingConfiguration

Product Search:  Search

Name	Published	Display Order		
(t)here	<input checked="" type="checkbox"/>	0	Select	Delete
Product1	<input checked="" type="checkbox"/>	0	Select	Delete
Product2	<input checked="" type="checkbox"/>	0	Select	Delete
Product3	<input checked="" type="checkbox"/>	0	Select	Delete
Product4	<input checked="" type="checkbox"/>	0	Select	Delete
Product5	<input checked="" type="checkbox"/>	0	Select	Delete
Product6	<input checked="" type="checkbox"/>	0	Select	Delete
Product7	<input checked="" type="checkbox"/>	0	Select	Delete
Product8	<input checked="" type="checkbox"/>	0	Select	Delete
Product9	<input checked="" type="checkbox"/>	0	Select	Delete

Add New...

GeneralDescriptionDisplayAvailabilityGallerySEOExtensionVariants

Product ID:

1

Name:

Product Type:

Regular

Buy Method:

☒ Internet ☐ Phone

# Attributes

You must first enable the **Product attributes** feature under **Configuration > Product**. Once enabled, you can set product attribute values that were defined earlier in **Catalog > Attribute definitions** menu.

The product attributes will appear in the Specifications tab in the product detail as well as in product comparison and filter. Please see Product attributes (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/catalog-product-attributes/rvdwkpvm/section>) for more information.

# Gallery Images

Each product can show a thumbnail, multiple display and multiple detailed-size images. There is no limit to the number of product images. The different size formats are used in the product pages:

- **Detailed** - the detailed image shown usually on a pop-up window when the Display image is clicked to show high resolution details of the product.
- **Display** - the primary image shown in the product detail page.
- **Tile** - the icon size image shown underneath the Display image to allow the user to switch between images for viewing.
- **Thumbnail** - the image shown on the product list page.

You should ensure the **Display order** number is the same for the set of related images. The same number is how the system knows the images of different formats belong to the same picture and is needed for the zoom effect to work correctly. For example, if you uploaded a detailed image and you set the **Display order** value to 1000. If later, you upload the thumbnail and display formats, you want to make sure the **Display order** number is also set to 1000. However, the next set of images should have a different **Display order** value of 1001.

[Dashboard](#) [Catalog](#) [Marketing](#) [People](#) [Sales](#) [Configuration](#) [Help](#)

## Product: Apple iPad Air

General	Description	Attribute	Display	Category	Availability
Gallery	SEO	Related	Cross-sell	Custom field	
Extension	Variant group	Variant	Review		

		Image	Format	Media type	Width	Height	Alternate text	Display order
			Detailed	image/jpeg	400	400	Apple iPad Air	1000
			Display	image/jpeg	200	200	Apple iPad Air	1000
			Thumbnail	image/jpeg	100	100	Apple iPad Air	1000

[Add new](#) [Import](#) [Export view](#) [Export all](#)

When you upload an image, the system will automatically resize the image to the pixel width set under **Configuration > Gallery** settings. If you want to avoid the resize operation for image quality reasons, you should upload the image with the exact width configured in your settings. We recommend using PNG over GIF for everyday pictures and using JPEG for

complex photographs. If you selected multiple formats in the checkboxes, the system will attempt to automatically resize and generate the other image formats for you. To get the best result when generating other formats automatically, you should upload the largest image you have to avoid losing image quality on resize.

Please note setting the gallery dimensions under **Configuration > Gallery** settings does not necessarily mean your images will appear at those configured sizes. Instead, the actual size of the image displayed on the screen depends on your display template design. This is especially true when designing for modern fluid and mobile templates. Suppose you have the following gallery settings:

- "Detailed" image size at 600 px
- "Display" image size at 300 px
- "Thumbnail" image size at 100 px.

Your Product Detail display template and CSS might still force the "Display" image to stretch to 350 px to fill the surrounding space or shrink to 200 px when viewed on a mobile device. The reason you still want to configure the appropriate gallery dimensions is to ensure the browser is downloading a smaller image (300 px) instead of the large 600 px image.

If you decide later to change the gallery size in the configuration, you will need to re-upload the affected images. Because of storage reasons, the Storefront does not keep the original images needed to perform a resize. However, you can use the Import/Export routine (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-and-export/rvdwkpvm/section>) to bulk upload the original images and the system will bulk resize them for you.



# SEO

Revindex Storefront is highly optimized for SEO (search engine optimization) so you benefit from the free traffic coming from natural search results.

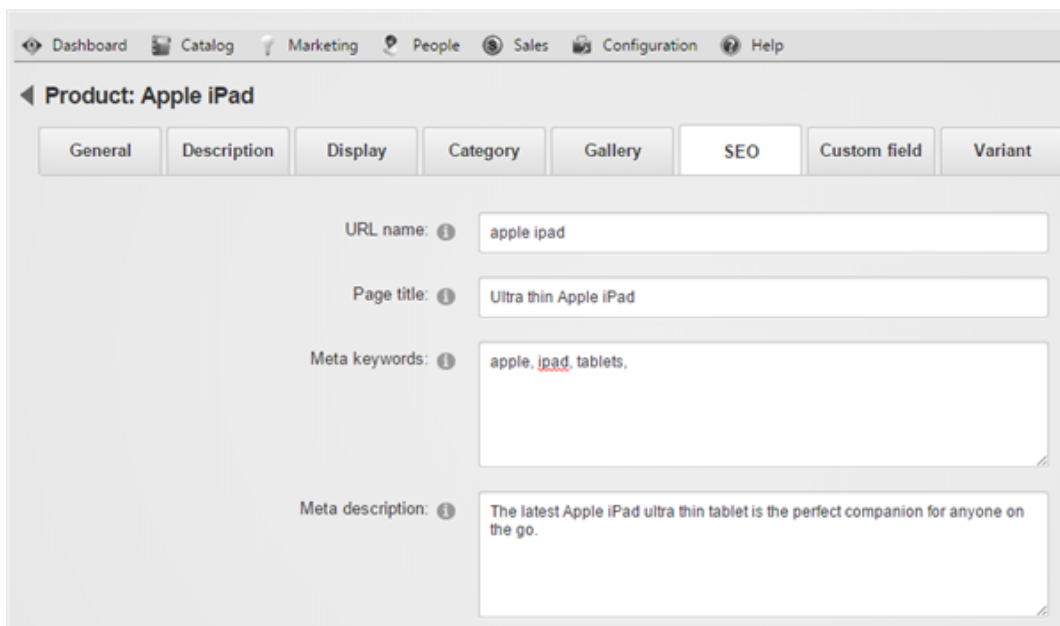
## URL Keywords

According to Google, keywords in the URL help improve your SEO ranking because search engines will index these words with high relevancy. Furthermore, the URL itself is displayed in the search results page and is usually displayed prominently on the top of the browser can provide human users with useful clues about the page's content.

With the advanced URL provider enabled, the Storefront will generate a nice clean URL such as

**http://site.com/product/shoe** Even if you don't enable the advanced URL provider, you can still get a nice URL that is amazingly SEO friendly like **http://site.com/product/rvdsfpid/shoe-3**

By default, the Storefront will use your product name to feed keywords in the URL. You can override the keywords without changing your product name by specifying the **URL Name** value under the SEO tab. For example, you may want to improve your SEO ranking by adding more searchable keywords "genuine leather shoe" without changing the product name. This will produce the URL **http://site.com/product/genuine-leather-shoe** and is more meaningful for users searching for high quality apparel than just any kind of shoe.



The screenshot shows the Revindex Storefront interface. At the top, there is a navigation bar with links: Dashboard, Catalog, Marketing, People, Sales, Configuration, and Help. Below this, the main heading is 'Product: Apple iPad'. Underneath the heading is a row of tabs: General, Description, Display, Category, Gallery, SEO (which is currently selected), Custom field, and Variant. The SEO tab contains four input fields: 'URL name' with the value 'apple ipad', 'Page title' with the value 'Ultra thin Apple iPad', 'Meta keywords' with the value 'apple, ipad, tablets,', and 'Meta description' with the value 'The latest Apple iPad ultra thin tablet is the perfect companion for anyone on the go.'

Just like your entire DNN site is localizable, the keywords in the URL are also localizable. Google recommends (<https://support.google.com/webmasters/answer/182192?hl=en>) that you make sure each language version is easily discoverable by keeping the content for each language on separate URLs. For example, the words "genuine leather shoe" can be localized to "soulier en cuir veritable" since those will be keywords searched by french users. This will in turn generate the URL **http://site.com/produit/soulier-en-cuir-veritable** when users visit your site in French.

When using advanced URL provider, the product, category, distributor and manufacturer pages are entirely driven by keywords in the URL. Therefore, it is important that you provide a unique set of keywords either in your product name or URL name so that the Storefront can generate a nice clean unique URL that doesn't collide with other generated URLs. Your URL names must not conflict with any URL name already used in your product, category, manufacturer or distributor catalog.

Similarly, if your product has variations, you can specify URL names so that the system generates the URL **<http://site.com/product/genuine-leather-shoe/brown>** for brown shoes and **<http://site.com/product/genuine-leather-shoe/black>** for black shoes, respectively.

Please read How advanced URL provider works (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-advanced-url-provider-works/rvdwkpvm/section>) for more information.

## Canonical URL

In any shopping site, there's usually more than one way to get to the same product. A customer can browse by category, search engine or simply visiting a link from a blog or social media. Each channel may cause the URL to be slightly different because of the additional data being passed in the URL. For example, if you navigated from the category "Apparel", you would get the URL **<http://site.com/product/apparel/genuine-leather-shoe>**. To avoid diluting your SEO value (also known as duplicate page content), the Storefront automatically generates canonical information on the page to tell search engines that it should index the one and only real URL that is **<http://site.com/product/genuine-leather-shoe>** no matter how many different URLs you have may have to get to the same page.

## META

As the merchant, you can also add META keywords and description to the page to give search bots more indexing hints. These values are localizable so you can present different keywords in different languages and earn more SEO points.

## Page title

You can also override the page title and provide your own SEO optimized title. Just like your entire DNN site is localizable, the page title is localizable so you can print different titles for different languages. For a French customer, the English title "Genuine Leather Shoe" doesn't mean much and will prefer to read "Soulier en Cuir Veritable" when browsing your product page.

## Clean HTML

Every standard display template generates nice clean HTML so search bots don't miss out on crucial text and links even if your products are located many page numbers away or in a deeply nested categories.

## Sitemap

The Storefront also generate complete sitemap of your products that is picked up by search engines. Please see Sitemap (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sitemap/rvdwkpvm/section>) for more information.

# Product Availability

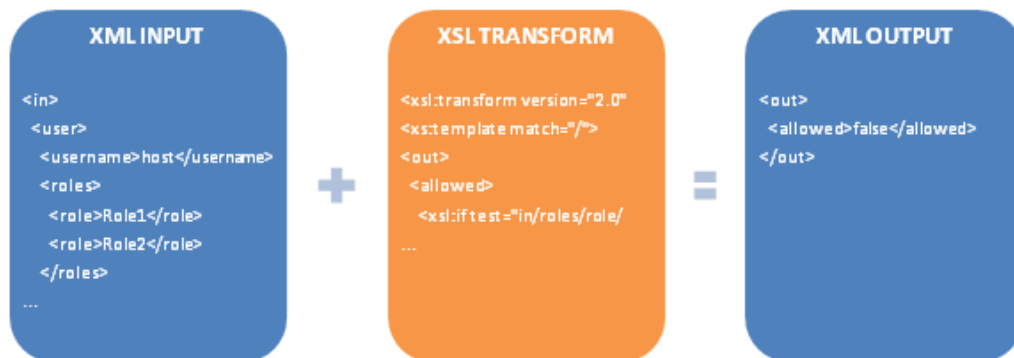
The product availability determines if the product is available for purchase. You must first enable the **Product availability** feature under **Configuration > Product**. Once enabled, you'll be able to add your own availability rules. The Storefront comes with several predefined rules such as allowing a product to be purchased based on user location or security role.

The screenshot shows the 'Availability' tab in a configuration interface. It includes sections for 'Availability rule' (set to 'Basic'), 'Region match' (with options 'Allow all except listed below' and 'Allow only those listed below'), 'Regions' (with an 'Add new' button), 'Role match' (with options 'Allow all except selected below' and 'Allow only those selected below'), and 'Roles' (with checkboxes for 'Administrators', 'Role 1', 'Role 2', 'Registered Users', 'Role 1.5', and 'Subscribers').

The product availability rule can also use XSL transform to determine whether this product is available for sale. For example, you may restrict the product to wholesale members on your site with a certain security role. The expected output should return "true" to indicate this product is available for sale under the input conditions, otherwise "false" if disallowed.

You can store additional information about the product using the **Extension** field and XML data. The extension information automatically becomes available for query in your business rules.

The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Custom fields

Custom fields allow you to capture additional information from customers. For example, you may want to require the customer to enter a date for a room reservation or the names of the attendees. The fields could be in the form of textboxes, dropdown list, radio buttons, etc. You can define any number of fields, assign a default value to them, marking them as required and perform simple validations.

You must first enable the **Custom fields** feature under **Configuration > Product**. Once enabled, you will see the Custom field tab appear in your product catalog. Click **Add new** and select either "Basic" or "Custom code". Basic type allows you to create fields from predefined input controls easily without any programming knowledge. If you want complete control over the rendered HTML, you can select the "Custom code" dynamic form type. Under custom code, you can enter HTML, ASP.NET tags and even Javascript.

When creating a custom field, make sure you enter a valid ID name for your controls. The ID is used to reference the control by the programming logic. It must be alphanumeric without any spaces and should be unique across all your custom fields and avoid colliding with any existing ASP.NET controls on the page. A good recommendation is to prefix your ID with a word. For example, you can prefix with the word "Custom" or "My" so you end up with an ID of "CustomNameTextBox". The ID name of the field along with its captured value will be printed on the checkout and confirmation pages. Any underscore character will be replaced with a space and control names like "TextBox", "DropDownList" will be omitted from the Web print out. For example, if you named your ID "Custom\_NameTextBox", it will print out as "Custom Name" on the Web page.

You'll find many references for the controls on the Web. Here's a good easy to read reference:

- ASP.NET Web forms ([http://www.w3schools.com/aspnet/aspnet\\_refwebcontrols.asp](http://www.w3schools.com/aspnet/aspnet_refwebcontrols.asp))

# Variant groups

Variant groups is an optional feature that allows you to regroup the different options available for your variants such as by color and size. See Variants (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/variants/rvdwkpvm/section>) for more information. You must first enable the **Product variant groups** feature under **Configuration > Products**.

For example, the current iPad comes in Black or White and 16GB or 32GB. We would then create 2 variant groups name "Color" and "Storage" to store the relevant attributes. The attributes can be edited under the Option tab of each group.

## Revindex Storefront

[Dashboard](#) [Catalog](#) [Marketing](#) [People](#) [Sales](#) [Configuration](#) [Help](#)

**Product: Apple iPad Air**

General

Description

Attribute

Display

Category

Availability

Gallery

SEO

Related

Cross-sell

Custom field

Extension

Variant group

Variant

Review

		Name	Display Order
		Color:	1000
		Storage:	1000

Add new

Import

Export view

Export all

Then edit their attributes,

**Variant group: Color:**

General

Option

		Name	Display Order
		Black	1000
		White	1000

Add new

Import

Export view

Export all

◀ Variant group: Storage:

General

Option

		Name	Display Order
		16GB	1000
		32GB	1000

Add new

Import

Export view

Export all

Which will now make the variant groups accessible when creating possible combinations of variants

Dashboard

Catalog

Marketing

People

Sales

Configuration

Help

◀ Product: Apple iPad Air

General

Description

Attribute

Display

Category

Availability

Gallery

SEO

Related

Cross-sell

Custom field

Extension

Variant group

Variant

Review

			Name	SKU	Published	Base price	Display order
			Black 16GB		<input checked="" type="checkbox"/>	499.9900	1000
			Black 32GB		<input checked="" type="checkbox"/>	599.9900	1000
			White 16GB		<input checked="" type="checkbox"/>	499.9900	1000
			White 32GB		<input checked="" type="checkbox"/>	599.9900	1000

Add new

Import

Export view

Export all

By selecting the proper variant groups in the dropdown menu.

## Variant: Black 16GB

General	Description	Attribute	Inventory	Price	Promotion
Recurring	Shipping	Handling	Dimension	Display	Availability
Gallery	SEO	Required	Custom field	Extension	
Action	Reward				

Product variant ID: 29

Product variant key: \* i

Product: [Apple iPad Air](#)

Name: i

Variant group: i

SKU: i

Black, 16GB

Black, 32GB

White, 16GB

White, 32GB

Manufacturer SKU: i

Once you defined your variant groups, your individual variants can then be assigned to one of the available variant group combinations (Black 16GB, Black 32GB, White 16GB, White 32GB, etc.). Once all your variants are associated, the Product Detail module control will allow the customer to pick a variant using the variant groups "Storage" and "Color". If one variant is not associated to the variant group combination, the Storefront will continue to display the variants in the default selection mode without the grouping.

If you use the variant groups feature on your variants, you must ensure every variant is associated to a variant group. If even one variant is not associated, the Storefront will show the default variant dropdown box instead of showing the variant group control.

# Variants

Each product contains one or more variants. Variants are variations of the same product. For example, if you sell shoes, you may offer your customers different variations of the same shoe by size and color. If you sell movies online, you may offer in two variants of DVD format and in downloadable version. If there is only one variant entry, then the product is considered to be without variations. You must always have at least one variant per product, also known as the default variant.

Any field that is available to be configured in the variant will override the same field that appears at the product level. This feature allows you to create a product that shares the same information with all the variants underneath it while overriding some fields for certain variants. For example, the DVD format may have a very different licensing description than the downloadable version than the general description of the product.

Although not necessary, many retailers will also find it useful to provide a unique **SKU** number for your variants. This convention largely depends on your own stock keeping practice.

Name	SKU	Published	Display Order		
Default		<input checked="" type="checkbox"/>	0	Select	Delete

Add New...

GeneralDescriptionPricingDimensionsDisplayAvailabilityGalleryRequired ProductsSecurityExtension

Product Variant ID: 14

Name: Default

SKU:

Manufacturer SKU:

Distributor SKU:

Manufacturer:

Distributor:

Inventory:

Min Order Quantity:

Max Order Quantity:

Require Shipping:

Download File:

Link Type:

☒ None

☐ URL ( A Link To An External Resource )

☐ Page ( A Page On Your Site )

☐ File ( A File On Your Site )



# Inventory

You can track the real-time inventory on hand for your individual variants. When an item is sold, the quantity is automatically decreased by one. By default, when the inventory is empty, the variant is no longer available for sale unless you configured the inventory behavior to allow backorder. You can also restrict the minimum and maximum quantities that can be purchased by your customer per order.

# Warehouse

You can associate the product variant to a warehouse if this product is shipped from a different location than your business address. After checkout, the variant's inventory will automatically be reduced. You must first enable the **Warehouse** feature under **Configuration > General** to use warehouses. Please see Warehouses (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/warehouses/rvdwkpvm/section>) for more information.

If the same product is available from different warehouses, you need to setup one variant for each warehouse so that the inventory is correctly tracked back to that warehouse. Rather than letting the user decide the variant to buy, you may want to configure the variant availability rule (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/variant-availability/rvdwkpvm/section>) to show a particular variant from a certain warehouse depending on the user location. For example, you may want to use the Availability rule to detect if the user is visiting your site from California and present only the variant that is stored in your West coast warehouse, and do the reverse action for a user located in the East coast.

Depending on the use case, you may need to employ 3rd party detection software like MaxMind GeoIP (<https://www.maxmind.com>) lookup to cookify the user visiting your site so that your Availability rule can correctly determine the precise location of the user.

# Price

The base price can be set for each variant. In addition, an optional product modifier (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/product-modifier/rvdwkpvm/section>) rule can be applied to change the price based on the quantity selected (tier pricing), values captured from the custom fields (e.g. size, color, etc).

Gallery

SEO

Related

Custom field

Extension

Variant

Review

Name	SKU	Published	Display order			
Default	SA.44233.V1	<input checked="" type="checkbox"/>	0	Select	Clone	Delete
Default2	SA.44233.V1	<input checked="" type="checkbox"/>	0	Select	Clone	Delete

Add new

Tip: The data fields of the selected variant overrides the product fields.

Save variant

General

Description

Attribute

Price

Promotion

Shipping

Handling

Dimension

Display

Availability

Gallery

Required

Custom field

Extension

Action

Base price:

12.5000

Recurring:

0

Day

MSRP:

15.9000

Product cost:

Tax class:

Goods

Modifier rule:

Tier price - vary by quantity, role...

Minimum price:

0.0000

Range:

Qty Begin	Qty End	Roles	Price adjustment		
5	11	All except	10%	Select	Delete

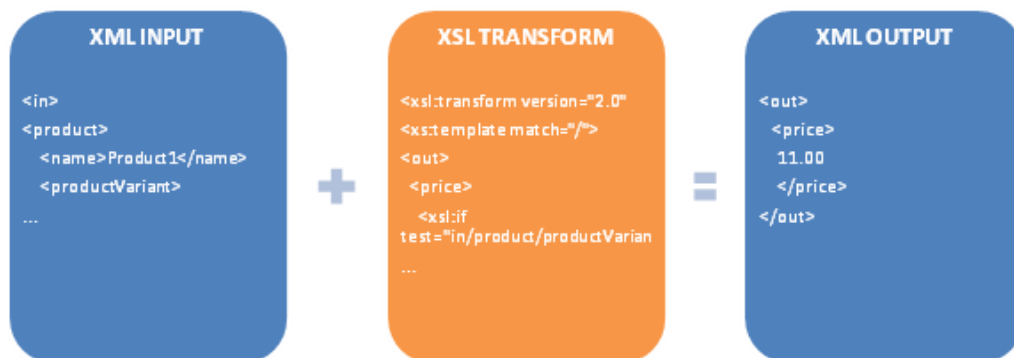
Add new

## Product Modifier

Modifier rule can be used to modify the selling price dynamically based on quantity, role, etc. For example, you may want to adjust the price if a customer belongs to a reseller group. You can also apply a sales promotion on top of the modified price.

The screenshot shows a web-based configuration interface for a Product Modifier. It features a tabbed menu at the top with categories: General, Description, Attribute, Price, Promotion, Shipping, and Handling. The 'Price' tab is currently selected, showing various pricing fields. Below the tabs, there are sub-tabs: Dimension, Display, Availability, Gallery, Required, Custom field, Extension, and Action. The main configuration area includes fields for Base price (12.5000), Recurring (0, Day), MSRP (15.9000), Product cost, Tax class ([NONE]), Modifier rule (Tier price - vary by quantity, role...), Minimum price (0.0000), Range (Add new), Quantity begin/end (both 0.0000), Role match (Allow all except selected below), Roles (Administrators, Role 1, Role 2, Registered Users, Role 1.5, Subscribers), and Price adjustment (0.0000, By amount). An OK button is at the bottom left.

You can also use XSL to write your custom price modifier rule. This feature provides incredible flexibility to describe a highly complex pricing structure should your business require it.



# Product Promotion

You can also apply a promotion rule to give a price reduction. For example, you may offer a 20% price discount for wholesale members or apply a time-limited flat discount.

GeneralDescriptionAttributeDisplayAvailability

GallerySEORelatedCustom fieldExtensionVariantReview

Name	SKU	Published	Display order			
Default	SA.44233.V1	<input checked="" type="checkbox"/>	0	Select	Clone	Delete
Default2	SA.44233.V1	<input checked="" type="checkbox"/>	0	Select	Clone	Delete

Add new

Tip: The data fields of the selected variant overrides the product fields.

Save variant

GeneralDescriptionAttributePricePromotionShippingHandling

DimensionDisplayAvailabilityGalleryRequiredCustom fieldExtensionAction

Promotion start date:YYYY-MM-DD

Promotion stop date:YYYY-MM-DD

Rate rule:Tier discount - discount by quantity, role...

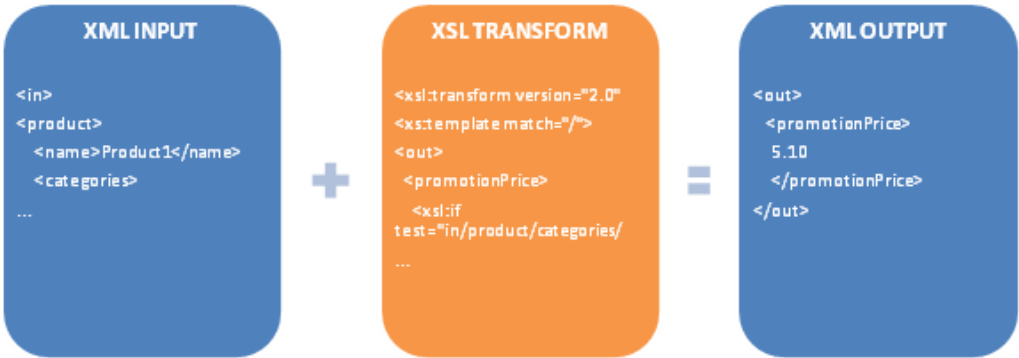
Minimum promotion price:2.0000

Range:

Qty Begin	Qty End	Roles	Discount		
2	4	All except	4%	Select	Delete

Add new

You can also use XSL to write more complex promotion rule. The expected output should return the calculated promotion price to charge. Promotion rules are always applied after product modifiers. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Subscription Products

If you sell a subscription product, you can configure the Storefront to automatically bill the customer for a recurring order every fixed interval (e.g. magazine subscription, etc.).

You must first enable the **Recurring orders** feature under **Configuration > General**. Once enabled, you can set the recurring interval for the variant. The Storefront will automatically create a new order for the customer and attempt to charge the payment when the renewal period has occurred.

If you're running tests on a development/staging machine with production data copied over and you sell recurring products, make sure to disable any recurring orders or change the payment gateway credentials, otherwise it will automatically charge your customer's credit card when the order is due for renewal.

## Taxable Products

If the product is taxable, you can assign a tax class to this variant. Tax classes are created ahead of time in the **Configuration > Taxes** menu. Please see Taxes (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/tax-methods/rvdwkpvm/section>) for more information.

## Weight & Dimensions

You can also provide the weight and dimensions for your variant to be used to calculate the shipping cost. The values entered here should be the actual weight and dimensions of your product with its original packaging. It should not include the weight or dimension of the container or envelope used to hold the product for shipping. Please see Packages (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/packages/rvdwkpvm/section>) and Packing (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/packing-methods/rvdwkpvm/section>) for more information about other weights and dimensions used for actual shipping calculation.



# Variant Availability

The variant availability determines if the variant is available for purchase. You must first enable the **Product availability** feature under **Configuration > Product**. Once enabled, you'll be able to add your own availability rules. The Storefront comes with several predefined rules such as allowing a product to be purchased based on user location or security role.

GeneralDescriptionAttributeDisplayAvailability

GallerySEORelatedCustom fieldExtensionVariantReview

Name	SKU	Published	Display order			
Default	SA.44233.V1	<input checked="" type="checkbox"/>	0	Select	Clone	Delete
Default2	SA.44233.V1	<input checked="" type="checkbox"/>	0	Select	Clone	Delete

Add new

Tip: The data fields of the selected variant overrides the product fields.

Save variant

GeneralDescriptionAttributePricePromotionShippingHandling

DimensionDisplayAvailabilityGalleryRequiredCustom fieldExtensionAction

Availability rule: Basic

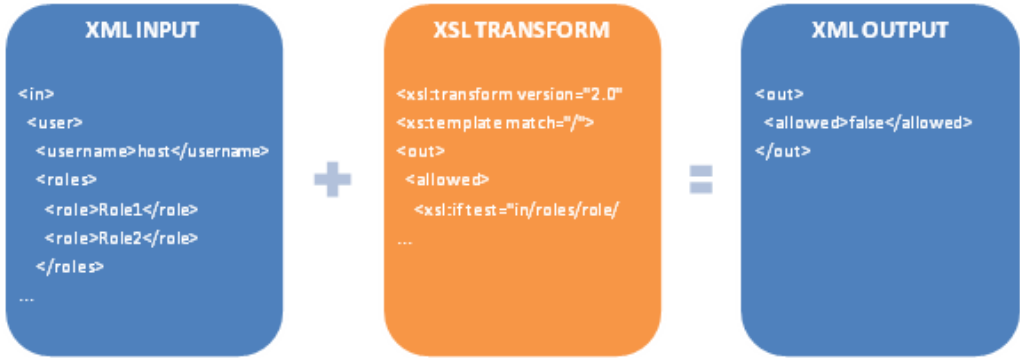
Region match: ☒ Allow all except listed below ☐ Allow only those listed below

Regions: ☒ Add new

Role match: ☒ Allow all except selected below ☐ Allow only those selected below

Roles: ☐ Administrators ☐ Role 1 ☐ Role 2 ☐ Registered Users ☐ Role 1.5 ☐ Subscribers

You can also use XSL transform to determine whether this item is available for sale. The expected output should return "true" to indicate this variant is available for sale under the input conditions, otherwise "false" if disallowed. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Attributes

You may override the product attributes set at the product level for the variant. Please see Attributes (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/product-attributes/rvdwkpvm/section>) for more information.

## Gallery Images

You may override the gallery images for this variant. If you do not provide an image for the variant, the image will be taken from the product level. There is no limit to the number of product images.

## Quoted products

A product can require a quote before selling and is usually useful for requesting services or large quantity orders where the price cannot be automatically determined. For example, if you provide home painting services, you likely want to ask for the dimension of the house, color choices, etc. to build a price quote. Once you received the request, you may be contacting your sub-contractors and paint suppliers before finalizing the price. The Storefront can simplify this lengthy process by capturing the required information from your customers and tracking the request from the start of the quote all the way to invoicing and completion.

### Professional Painting



☐ Compare

#### Professional Painting

We offer competitive pricing for commercial & residential painting.  
Submit a quick quote today or call **1-800-832-PAINT**



Property Type:

☒ Residential ☐ Commercial

Paint area:

☒ Interior ☐ Exterior

How many colors:

1

Add to quote

Quote now

Add to wish list



To create a quoted product, simply set your variant **Sales type** to "Quote". You may also want to disable the **Show price** and **Show quantity** for the product as well as configure any custom fields to capture additional information from the customer. Please see Custom fields (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/product-custom-fields/rvdwkpvm/section>) for more information.

## Product: Basic Ship Quote

General	Description	Attribute	Display	Category	Availability	Gallery	SEO	Related	C
Extension	Variant group	Variant	Review	Channel					

### Price

Product variant ID: 284

SKU:

Sales type:

Quote - Customer must request a quote for final price

Base price:

1.0000

Tax class:

None

### Inventory

### Shipping

Edit details

Add new variation

Clone

Import

Export view

Export all

A quoted product will not display the price and amount in the shopping cart. If a quoted product is added to the cart along with other normal selling products, the Storefront will treat the entire order as a quotation and will not request for payment. As the merchant, you will see the order appear with the status of "Quoted" and it is expected that you will finalize the actual amount, recalculate the order and mark the status as "Ordered" prior to sending the customer the invoice to pay. The customer receives the invoice and can resume the payment, completing the normal order cycle. The merchant can negotiate and adjust the price as many times as needed until the deal is completed or cancelled.

## Bundled products

Bundled products are a great way to encourage your customers to shop more. For example, you could sell a computer tablet and the cover together as a bundle. The customer appreciates it because it saves them time and is usually cheaper than buying the two products separately. You can create as many configurable or fixed bundles and they can be made up of as many separate parts you need. The inventory of each part is tracked independently so you know exactly how many tablets or covers you have left in stock.

### Microsoft Surface + Cover Bundle



The screenshot displays a product bundle interface. On the left, there is an image of a Microsoft Surface tablet with a keyboard cover. Below the image is a checkbox labeled 'Compare'. To the right of the image, the bundle title 'Microsoft Surface + Cover Bundle' is shown with a five-star rating. Below the rating, the price is listed as 'USD \$934.99' and the points earned as '933'. A 'Bundle Discount' section follows, showing the individual items: 'Microsoft Surface Pro 3' for 'USD \$849.99' and 'Microsoft Surface Pro Cover' for 'USD \$85.00'. A quantity selector is set to '1'. At the bottom, there are four buttons: 'Add to cart', 'Buy now', 'Add to wish list', and 'Update'.

Microsoft Surface + Cover Bundle

★★★★★

Price: USD \$934.99

Points earn: 933

Bundle Discount

Microsoft Surface Pro 3 USD \$849.99

Microsoft Surface Pro Cover USD \$85.00

Quantity: \* 1

Add to cart Buy now Add to wish list Update

You must first enable the **Bundled products** feature under **Configuration > Product** settings. Once enabled, you'll be able to create components and assign parts that make up your bundle.

## Component

A component is simply a grouping of your parts to come. You can have different components with different behaviors. For example, if you're selling a desktop computer, you might create several components (Processor, Memory, Storage, etc.) so that the customer can select the type of CPU for their processor, the amount of memory and hard drives, etc.

There are several kinds of bundled products. The first is an implicit bundle. An implicit bundle is meant to bundle several products together without advertising the parts. For example, you could bundle a bicycle and a kickstand but you don't necessarily want to emphasize the kickstand as a separate part with its own price because the kickstand might be worth very little compared to the price of the bicycle and would confuse the customer. Yet, it is an essential part of the bicycle and you still want to bundle them because it helps to sell quicker while allowing you to track the inventories separately. In this case, the sum of the parts in an implicit bundle appears to be worth more than if advertised out separately.

## Microsoft Surface + Cover Bundle



☐ Compare

### Microsoft Surface + Cover Bundle



Price: **USD \$934.99**

Points earn: 933

Quantity: \*

Add to cart

Buy now

Add to wish list

Update

The second type of bundled product is an explicit bundle. This type of bundle is intended to emphasize the parts that make up the bundle. The previous example of selling the tablet and its cover is a great way to highlight the parts in an explicit bundle because the savvy customer is already aware of the prices and savings they would get if buying separately.

## Microsoft Surface + Cover Bundle



☐ Compare

### Microsoft Surface + Cover Bundle



Price: **USD \$934.99**

Points earn: 933

#### Bundle Discount



Microsoft Surface Pro 3 **USD \$849.99**



Microsoft Surface Pro Cover **USD \$85.00**

Quantity: \*

Add to cart

Buy now

Add to wish list

Update

The last type is a configurable bundle. This is usually intended for customers to pick and select the parts they want to make up the bundle. The example of selling a desktop computer and giving the choice for the customer to pick the processor, amount of storage is a great candidate for configurable bundle if you need to track the inventory of the separate parts so that you don't run out of hard drives. The Storefront allows you to offer a single (one processor per computer) or multiple selection (perhaps for multiple hard drives that can go into the computer).

## Microsoft Surface + Cover Bundle



☐ Compare

### Microsoft Surface + Cover Bundle



Price: USD \$934.99

Points earn: 933

#### Bundle Discount



Microsoft Surface Pro 3 USD \$849.99



Microsoft Surface Pro Cover USD \$85.00

Quantity: \*

1

Add to cart

Buy now

Add to wish list

Update

You can mix and match different types of components that make up your bundle. For example, you can offer your customer the ability to select certain aspects of your bundle while fixing the rest through either implicit or explicit components.

You must first create the components that make up your bundle. Give it a name and select the desired type and **Save**. Then add the product parts that make up this component.



Component: Bundle Discount

General

Product component ID:

1

Name: \*

Bundle Discount

Display order: \* ⓘ

1000

Type: \*

Explicit (visible) ▼

Parts

		Product	SKU	Quantity	Display order
		Microsoft Surface Pro 3		1	0
		Microsoft Surface Pro Cover		1	0

Add new
Import
Export view
Export all

Save
Save & return
Cancel

Parts

A product part lists the actual product that you want associated to the component groups that make up your bundled product. The part can modify the price of the product thereby achieving the bundled savings commonly expected by customers. You can also set the quantity of products in the bundle or go as far as allowing the customer to modify the quantity. Currently, only non-recurring and non-booking products that belong to the same seller and warehouse can be bundled together.

## Part: Microsoft Surface Pro Cover

### General

Product part ID: 3

Product: \* Microsoft Surface Pro Cover [Edit](#)

Selected: ☒

### Price

Modifier rule: i Adjust price - modify price by amount or perc ▼

Price adjustment: \* i -50.0000 By percentage ▼

### Inventory

Default quantity: i 1

Min order quantity: i

Max order quantity: i

### Display

Show price: ☒

Show quantity: ☐







By default, the bundled product will show the combined price from sum of the parts. Suppose the tablet sells for \$849.99 and the cover regularly sells for \$170, the combined price would be \$1019.99. If the cover has a price adjustment of 50% for being in a bundle, then the cover would be reduced to \$85 and the complete bundled product would list the combined price of \$934.99.

The sequence of multiple price adjustments occurs starting from the product variant first and then the product part. For example, if your variant has a base price of \$100 and has a price modifier rule to adjust it to \$95. The product part's price adjustment will occur against the \$95, after the variant's own price adjustment. This sequence ensures that your customers always see the most up-to-date price in your catalog should you decide to sell the product individually or in a bundle.

## Sales order detail













It's important to understand that while a bundled product consists of many products in one, it still creates separate order detail line items internally when added to the shopping cart.

## View cart

Item	Qty		Amount
 Xbox Halo 4	<input type="text" value="1"/>	 	USD \$69.99
 Microsoft Surface + Cover Bundle Microsoft Surface Pro 3: 1 Microsoft Surface Pro Cover: 1	<input type="text" value="1"/>	 	USD \$934.99

While the customer is mostly unaware of it, this behavior is advantageous to the merchant who works hard to fulfill the order. The consistency minimizes disruption in your business processes because you can treat the order indifferently whether the product is bundled or not.

## Order detail

		ID	Image	Product	SKU	Shipping status	Quantity	Amount
		24		Xbox Halo 4		NotShipped	1	USD \$69.99
		25		Microsoft Surface + Cover Bundle		NotShipped	1	USD \$0.00
				Microsoft Surface Pro 3		NotShipped	1	USD \$849.99
				Microsoft Surface Pro Cover		NotShipped	1	USD \$85.00

[Add new](#)[Export view](#)[Export all](#)

Your business will be able to pack, ship, fulfill, track and refund the individual items very easily. For example, you're not forced to have all the bundled parts ready for shipping if you're short on inventory for one product. You can ship and track them separately. The slight indentation in the sales order detail rows indicate a product part belonging to the bundle.

## Booking products

Revindex Storefront supports booking products including hotel reservations, short and long term rentals, events and selling billable hours for services. The booking units can range from hours, days, weeks, months to years allowing you to sell a wide range of products that are driven by dates.

### Fairmont Hotel



☐ Compare

#### Fairmont Hotel

100 Front St West, Toronto, ON, M5J1E3, Canada



Price: USD \$149.00

Points earn: 149

Option: Standard Room 1 Queen Bed ▼

From: \* 2016-06-07

Until: \*

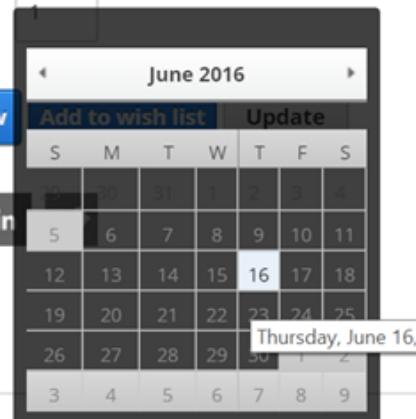
Quantity: \*

Add to cart

Buy now

Add to wish list

Update



Overview

Reviews

4 star hotel with indoor pool near CN Tower

To configure a booking product, you must first enable **Booking products** under **Configuration > Product** settings. Once enabled, you'll be able to access the Booking tab under the product variant. The Storefront will automatically display a calendar view that your customers can use to select dates and time for your booking product. You can easily manage all your booked orders from the **Sales > Bookings** menu. Please see Bookings (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/bookings/rvdwkpvm/section>) for more information.

## Variant: Basic Booking /

General	Description	Attribute	Inventory	Price	Promotion	Recurring	Booking	Shipping
Availability	Gallery	SEO	Component	Required	Custom field	Extension	Action	Review

Unit type: ⓘ

Min order unit: ⓘ

Max order unit: ⓘ

Min date: ⓘ

Max date: ⓘ

Exclude dates: ⓘ

Min time: ⓘ  ⓘ

Max time: ⓘ  ⓘ

### Unit Type

The unit type determines how the resources are being sold by hour, day, week, month or year. For example, if you offer legal consultation, you might select "hours" for billable work. For hotels, you're likely allowing booking by days. For apartments, you might want to allow bookings by the week, month or even yearly.

It's important that you don't change the unit type once the product has been published and have started selling as it will impact the behavior of historical orders.

You can set the minimal and maximum order units if you need to enforce a range of units to be reserved at a time. For example, you want to ensure the customer reserves 3 hours block at a time.

You can also block out dates for holidays and special days when your resources are not available for booking.

### Inventory

If your variant has an inventory value set, the Storefront will automatically track and enforce inventory by dates so your customers can only reserve dates when it's actually available. For example, if you operate a hotel and you have an inventory of 50 standard rooms available, the Storefront will allow only 50 rooms to be reserved in total for any given date.

### Time zone

If you sell locally or your products are not time sensitive (you only deal with rough dates), you might not need to be concerned about time zone. For all other cases, it's important to understand that the Storefront treats the selected booking dates according to your portal's time zone consistent with the expected behavior of other major booking and travel sites. It is therefore crucial to correctly configure your portal's time zone before you start selling booking products.

For example, suppose you operate a hotel that is situated in New York and your portal's time zone is therefore set to Eastern Standard Time (EST). A customer in Australia (whose time zone is almost one day ahead), reserves the hotel room for April 15. The Storefront will register it as April 15 00:00:00 EST in New York time. In other words, you're always selling resources according to your time zone. For the customers around the world, it makes perfect sense because they are expected to arrive at your hotel at those dates under your time zone consistent with other travel sites and makes the buying experience easier. Internally, the Storefront converts and stores all captured dates as Universal Time Coordinate (UTC) time zone to avoid any data ambiguity.

## Required Products

Variants can also have required products (e.g. a notebook product requires a battery and power adapter). Required products are automatically added to the customer's shopping cart when this variant is chosen. For example, you sell magazine subscriptions that has a one-time setup fee. Create your subscription product and your setup product as two separate products like you normally would. Then use the required products feature to associate both products. When the customer adds the magazine subscription, the Storefront will automatically attach the setup fee.

You must first enable the **Required products** feature under **Configuration > Product**. Once enabled, you'll be able to associated the products under the **Required** tab.

Unlike bundled products, the use of required products is more suitable for ensuring certain products that require each other are present both in the shopping cart as opposed to products that merely complement each other for a better price deal. From the customer point of view, a required product appears as a separate high-level order detail line item when added to the cart whereas parts from a bundled product are subdued and do not appear.

Therefore, conditions configured for a required product is validated against all the products currently present in the cart. As such, if the required product has a precise required quantity, it will validate against all the products currently in the cart. For example, you can use a required product to charge a one-time setup fee regardless of the number of products A or B added to the cart. Please see Bundled products (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/bundled-products/rvdwkpvm/section>) for more information.

## Downloadable Products

If you are selling a virtual product (e.g. software or e-book), you can provide a download file location that will be made available to your customers after purchase. The file location can be any downloadable file, a DNN page or any random URL. File protection is handled by native DNN security. Please see [How to create downloadable products](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-downloadable-products/rvdwkpvm/section) (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-downloadable-products/rvdwkpvm/section>) for more information

The screenshot shows the 'Resource' tab in the Revindex Storefront interface. The top navigation bar includes links to Dashboard, Catalog, Marketing, People, Sales, Configuration, and Help. The main header indicates the current variant is 'Software With External License'. Below this, a grid of tabs allows switching between different product attributes: General, Description, Attribute, Inventory, Price, Promotion, Recurring, Shipping, Display, Availability, Gallery, SEO, Component, Required, Custom field, Extension, Reward, and Resource. The 'Resource' tab is currently active. It contains a 'Voucher' dropdown menu, a 'Download file' section with a 'Link Type' radio button group (options: None, URL (A Link To An External Resource), Page (A Page On Your Site), File (A File On Your Site)), and a 'Rights' dropdown menu showing 'License Key 1'. At the bottom, there are four buttons: 'Save', 'Save & return', 'Cancel', and 'Preview'.

If you need to automatically issue a license key, serial number, password or any code to unlock your virtual product, you can make use of the Storefront's built-in access rights system. Please see [Rights](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/catalog-rights/rvdwkpvm/section) (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/catalog-rights/rvdwkpvm/section>) for more information.

You can have multiple downloadable items per product simply by compressing your files into a single zip file or by creating implicit bundles. Please see [Bundled products](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/bundled-products/rvdwkpvm/section) (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/bundled-products/rvdwkpvm/section>) for more information.



## Custom fields

You can capture additional values from your customer using custom fields. Any custom fields defined under the product variant will override the custom fields defined at the product level. Please see Custom fields

(<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/product-custom-fields/rvdwkpvm/section>) for more information.

# Actions

You can automatically grant or revoke security roles to customer after purchasing a variant or make a Web request (GET or POST) to an external service. This feature is useful if you need to allow access to certain pages on your Web site after the customer purchases the product or you have custom logic that needs to run.

You must first enable the **Product actions** feature under **Configuration > Product**. Once enabled, you can add your own action rules from the Action tab.

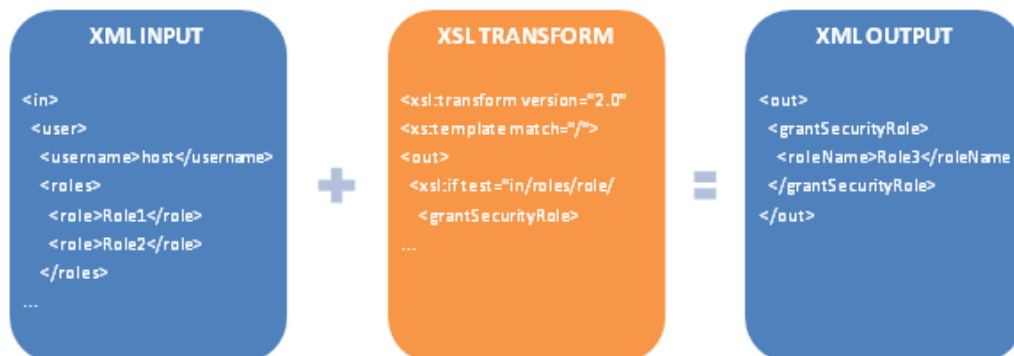
Please note you can only grant security roles that are allowed under the **Configuration > Security** menu. This security feature prevents staff operators from creating product action rules to grant themselves higher level roles (e.g. “Administrators” role).

For security reasons, to execute SQL statements in your action rules, you must first login as Host user and enable the **Allow SQL in action rules** option under the **Configuration > Security** settings.

The screenshot shows a product configuration interface with multiple tabs. The 'Variant' tab is active, displaying a table with columns: Name, SKU, Published, Display order, Select, Clone, and Delete. Two variants are listed: 'Default' and 'Default2', both with SKU 'SA.44233.V1' and 'Published' status checked. Below the table is a 'Tip: The data fields of the selected variant overrides the product fields.' and a 'Save variant' button.

The 'Action' tab is also visible, showing a 'Place order action rule' dropdown set to 'Basic'. Below this is a table with columns: Type, Description, and two action buttons (Select, Delete). Two actions are listed: 'Grant role' with description 'Role 2' and 'Web request' with description 'http://host.com/service.aspx'.

The **Place order action rule** can also use XSL transform to determine what action rules to run. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Extensions

Your products may have additional information that is not covered by the standard fields in the product catalog. In fact, you can store any arbitrary information in the Extension field hidden from customer view. This extended information is useful for record keeping and it becomes available in your business rules to change the behavior of the product.

Some example uses of the Extension field include:

- Record the type of material that you don't necessarily want the customers to see. The type of material (e.g. percentage of gold) is calculated by your price modifier rule to adjust the price.
- Use the Extension field to record the email address for each different product that you drop ship. The Place order action rule can be written to read the extension field and automatically send out the email to the manufacturer to fulfill.

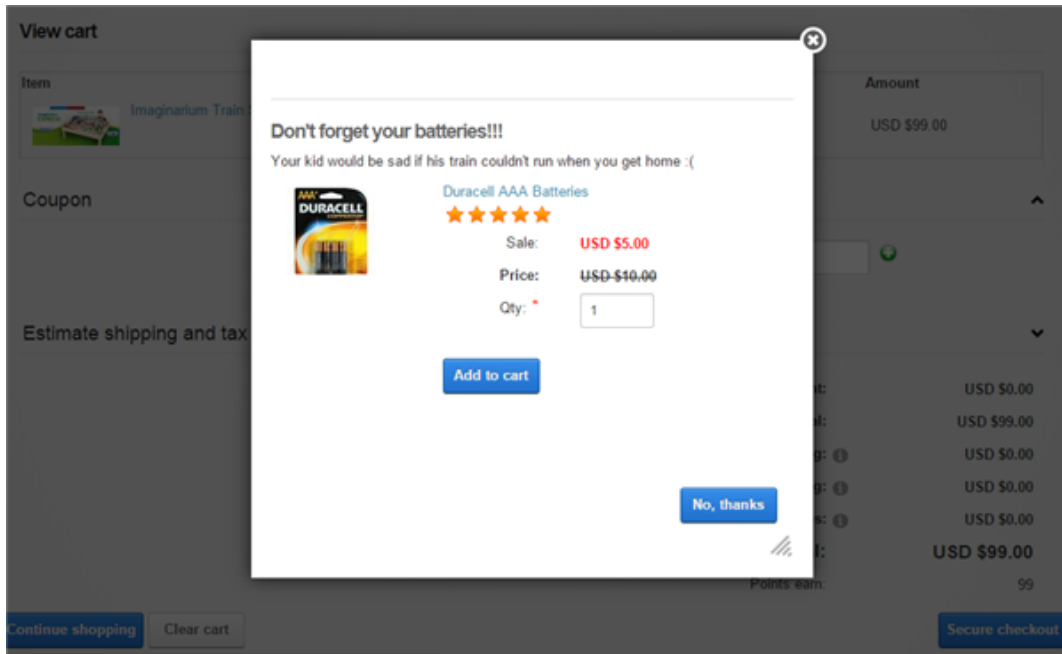
You must first enable the **Extensions** feature under **Configuration > Product**. Once enabled, you'll be able to enter your own extension data. The Extension field can hold data in any XML format. We recommend keeping the format simple, for example:

```
<data>
  <material>gold</material>
  <composition>0.5</composition>
</data>
```

In your other business rules (e.g. place order action rule, price modifier rule, availability rule, email templates, etc.) you can query the data stored in the Extension field to make determinations that affect the behavior of the product.

## Cross-sell products

Cross-sell products are a great way to increase sales. For example, if you sell electronic toys, a quick easy way to increase your revenue per order is to remind the customer to buy batteries right before checkout. There are many cross-sell opportunities for almost every type of business. Many times, these are high margin products or services being sold to impulse buyers right at the last minute (e.g. insurance, gift wrap, etc.).



The cross-sell products are offered to the customer on the cart page right before they proceed to checkout. Therefore, when putting together your cross-sell products, think about what your customer will perceive at the moment before checkout. You want to offer one or two interesting products that are relevant to items in his cart at a small price tag relative to his total purchase. You definitely want to show a catchy title like "Don't forget your batteries!!!"

You must first enable the **Cross-sell products** feature under **Configuration > General**. Once enabled, you can offer cross-sell products such as batteries that are targeted to a few specific products you sell under **Catalog > Products** menu or you can offer products that are generally available to every product such as gift wrap under **Configuration > Cross-sell product** settings.

◀ **Cross-sell product:**

General Availability

Cross-sell product ID: 1

Offer product: \* Insurance

Display order: ⓘ 1000

Active: ⓘ ☒

Start date: ⓘ YYYY-MM-DD HH:mm 🕒

Stop date: ⓘ YYYY-MM-DD HH:mm 🕒

Title: ⓘ

Description: ⓘ

Revindex Storefront has a powerful rules engine that allows you to optimize your cross-selling effort by showing only qualified products that are relevant at the point of checkout. For example, you can offer \$5 batteries when you detect electronic goods are purchased in the cart with missing batteries and his total purchase reached at least \$40. You can even pair it with a promotion to entice your customers with a discount like "This product is offered only to you at 50% off because you spent over \$100". Whatever the products you decide to offer, it should always make sense and add value for the customer.

# How to create a simple product

Creating a simple product for sale is easy and takes a few minutes. Below are the typical steps to create a basic product:

1. From the **Catalog > Products** menu, click on **Add new**
2. On the General tab, give your product a meaningful name.
3. On the Description tab, enter the description for your product.
4. On the Display tab, select the categories this product should be associated with.
5. Click on Save. Your initial product is now created with a default variant.
6. On the Gallery tab, add some images to depict your product.
7. On the Variant tab, select the default variant:
  - i. On the General tab, give it a name or leave blank. Enter the SKU for this product if you have one. You may fill up the other information about this variant such as manufacturer, inventory, etc.
  - ii. On the Price tab, enter the base price for this product. If this is a recurring product (subscription), set a non-zero number for the Recurring value. Assign the variant to a Tax class if it is taxable.
  - iii. On the Shipping tab, check the Require shipping checkbox if this product needs shipping.
  - iv. On the Dimension tab, enter the weight and dimension of your variant to be used for shipping calculation. The values should include any packaging.

That's it. You have now created a new product ready to sell. You can always go back to edit your product and make changes.

# How to create a recurring product

Revindex Storefront supports recurring products, also known as a subscription. The system will automatically create a new order for the customer when the recurring period has elapsed. You must first enable the **Recurring orders** feature under **Configuration > General**. Creating a recurring product for sale is easy and takes a few minutes. Below are the typical steps:

1. From the **Catalog > Products** menu, click on **Add new**
2. On the General tab, give your product a meaningful name.
3. On the Description tab, enter the description for your product.
4. On the Display tab, select the categories this product should be associated with.
5. Click on Save. Your initial product is now created with a default variant.
6. On the Gallery tab, add some images to depict your product.
7. On the Variant tab, select the default variant:
  - i. On the General tab, give it a name or leave blank. Enter the SKU for this product if you have one. You may fill up the other information about this variant such as manufacturer, inventory, etc.
  - ii. On the Price tab, enter the base price for this product. Assign the variant to a Tax class if it is taxable.
  - iii. Set a non-zero number for the Recurring value and the desired recurring interval.
  - iv. On the Shipping tab, check the Require shipping checkbox if this product needs shipping.
  - v. On the Dimension tab, enter the weight and dimension of your variant to be used for shipping calculation. The values should include any packaging.

That's it. You have now created a new recurring product ready to sell. You can always go back to edit your product and make changes.

## How to create a setup fee

In many businesses, especially for recurring products, you may want to charge a one-time setup fee. Please note you must first enable the **Required products** feature under **Configuration > Product** to use this functionality.

1. You can do so by first creating your usual product for sale (See "How to create a simple product (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-a-simple-product/rvdwkpvm/section>)" and "How to create a recurring product (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-a-recurring-product/rvdwkpvm/section>)").
2. Then create your setup fee as another new product following the same steps as your previous product. Under the Display tab, uncheck the **Published** checkbox to hide this product from public view. Configure the price for the default variant and any other settings you need. Make sure the variant's recurring interval is zero since this is a one-time setup fee. Save your product.
3. Go back to your previous product and associate the setup product as a requirement under the Required tab.

Now when the customer purchases the first product, it will automatically add the required setup fee.



## How to create overridable price product

An overridable price product is a product that the customer can decide on the price to pay. A good example is a donation or gift certificate product. The customer can decide on how much to donate or how much money to put into the gift certificate. Please note you must first enable the **Custom fields** feature under **Configuration > Product** to use this functionality. Follow the steps below to create an overridable price product:

1. Create a regular product like you normally would do.
2. Select your product variant
3. Under custom field tab, select "Basic" for the dynamic form dropdown.
4. Click **Add new**
5. Select Field type to "TextBox".
6. Give the ID a name like "CustomPrice\_TextBox"
7. Give the Label a name like "Custom price:"
8. Tick the Required checkbox.
9. Choose "Decimal" for the Data type.
10. Click **OK**.
11. Under Price tab, set the Modifier rule to "Override price"
12. Set the Field ID to the exact ID you named above ("CustomPrice\_TextBox").
13. **Save** the variant.

# How to create a configurable price product

A configurable price product is a product where the price varies depending on the features chosen by the customer. There are several ways to create configurable products using bundled products or custom fields with price modifier. Bundled products are more powerful and allows you to track inventory for each part included in the configurable product. Custom fields are simpler but does not track inventory for the individual parts. Please see Bundled products (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/bundled-products/rvdwkpvm/section>) and Custom fields (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/product-custom-fields/rvdwkpvm/section>) for more information.

## Using bundled product

You must first enable the **Bundled product** feature under **Configuration > Product** to use this functionality.

1. Start by creating all your available parts as regular products like you normally would do (e.g create a Hard Drive storage product with several variants for 100GB, 200GB, 300GB). Make sure to assign a base price for each variant (e.g. \$10 for 100GB, \$20 for 200GB hard drive).
2. Now create a regular product like you normally would do for your main product.
3. Under the Variant tab, click on **Edit details**.
4. Under the Component tab, click **Add new** to create a new component.
5. Give your component a name (e.g. Storage) and select the Type to "Multiple selection". Click **Save**.
6. Click **Add New** to add a new part for the newly created component.
7. Select the product you created earlier to associate to this part (e.g. 100GB hard drive). Click **Save & Return**.
8. Repeat step 6 for as many parts you need (e.g. 200GB, 300GB hard drives).
9. Repeat the steps above if you have more than one type of component in your configurable product (e.g. Memory, Software, etc.)

## Using custom fields and price modifier

You must first enable the **Custom fields** feature under **Configuration > Product** to use this functionality. Follow the steps below to create a configurable price product:

1. Create a regular product like you normally would do.
2. Under the custom field tab, select "Basic" for the dynamic form dropdown.
3. Click **Add new**
4. Select Field type such as "DropDownList".

5. Give the ID a name like "Custom\_Storage\_DropDownList"
6. Give the Label a name like "Storage:"
7. Add the available choices to the List items selection (e.g. 100GB, 200GB, 300GB). You must enter both the name and value (e.g. Name = 100GB, Value = 100). The value is the actual text that will be matched to adjust the price.
8. Click **OK**.
9. Repeat the steps above if you have more than one custom field.
10. Click **Save**.
11. In your variant, under Price tab, set the Modifier rule to "Configurable price".
12. Click **Add new**.
13. Set the Field ID to the exact ID you named above ("Custom\_Storage\_DropDownList").
14. Set the Operator to "Equal" and the Operand to one of the values (e.g. "100"). If your custom field is a CheckBox type (not a CheckBoxList type) without value, set the Operand to "true".
15. Set the price adjustment for that selected value.
16. Repeat the steps above for each available selection that you want to adjust the price.
17. **Save** the variant.

# How to create downloadable products

A downloadable product is used to grant access to a file or page on your site. For example, a site that sells e-books will need to grant access to PDFs for customers who purchased the product. There are two ways to accomplish this.

Customers can access their downloadable files from the Manage Product Download (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/manage-product-download/rvdwkpvm/section>) module. It is a good idea to customize your Order Receipt email template to point customers to your download page.

You must mark the order as "Completed" or "Paid" before the customer is able to view their downloads from the Manage Product Download (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/manage-product-download/rvdwkpvm/section>) module. See how to automatically mark all incoming orders by visiting the How to force order and payment status (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section>) topic.

## Using Link Obscurity

The easiest way is to attach a file on your site to the variant. This is a quick and easy way to provide downloadable file. However, anyone who gets hold of the URL, will be able to download your file.

1. From the Storefront administration **Catalog > Products**, create your new product as usual. See How to create a simple product (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-a-simple-product/rvdwkpvm/section>) for more information.
2. Edit the variant details. Under the **Resource** tab, assign the **Download file** to an existing file on your site or upload a new file. Click **Save**.

## Using Secure Folder

Your site is capable of securing file access by folder. This means you can upload your file to special secure folders and only grant the user access by a special role. Even if the URL is discovered, the user cannot download the file without permission.

1. From the persona bar, open the **Manage > Roles** page, click **Create New Role**. Give it a name (e.g. "Paid Customers") and click **Save**.
2. From the persona bar, open the **Manage > Site Assets** page. Start by creating a new folder. Give it a name (e.g. "Private") and choose **Folder Type** = "Secure" and click **Save**. Right mouse click the **View Properties** on the newly created folder. Under the **Permissions** tab, allow access to your newly created role (e.g. "Paid Customers") and remove access for other non-administrative roles. Click **Save**.
3. Log in as host (superuser) of the site. From the Storefront administration, open the **Configuration > Security** settings page, select the **Allowed roles** to include your newly created role. Click **Save**. You only need to perform this step once. This is a security feature to prevent employees from creating products and granting themselves higher privilege roles on your site.

4. From the Storefront administration **Catalog > Products** page, create your new product as usual. See How to create a simple product (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-a-simple-product/rvdwkpvm/section>) for more information.
5. Edit the variant details. Under the **Resource** tab, assign the **Download file** to an existing file or upload a new file under the secure folder you created (e.g. "Private" folder).
6. Under the variant's **Action** tab, set the **Place order action** rule to "Basic" and click **Add new**. Select "Grant role" and choose the newly created role (e.g. "Paid Customers"). Click **Save**. Now when the customers buy this product, they will be granted the role allowing them the permission to download the file located in the secure folder.

# How to create a catalog product

A catalog product is a browse-only product. Customers can only view, but cannot buy over the Internet or must buy through the phone.

If all your products are browse-only, you can disable the buy options site wide by following the steps below:

1. Under **Configuration > General**, first enable the **Product detail**, **Product list** and **Product showcase** features.
2. Once the features are enabled, you can access the **Configuration > Product detail**, **Configuration > Product list** and **Configuration > Product showcase** to disable the **Show Add to Cart button**, **Show Buy Now button** and **Show quantity** checkboxes. If needed, you can also disable the **Show price** to hide the prices.

If only certain products are browse-only, you can disable the buy options for selected products by following the steps below:

1. Under **Catalog > Products**, select the desired product to edit.
2. In the **General** tab, unselect the **Internet** option in the **Buy method** field and **Save**. If needed, you can also disable the **Show price** to hide the prices under the **Display** tab.
3. Repeat the steps for each of your other products.

# How to create a voucher product

A voucher, also known as a gift card or gift certificate, can be sold and automatically generated and emailed to your customer. You can sell an unlimited number of vouchers and for different amounts. Please see Vouchers (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/catalog-vouchers/rvdwkpvm/section>) for more information.

1. You must first enable the **Voucher** feature under **Configuration > General**.
2. Once enabled, create a new voucher definition from the **Catalog > Vouchers** menu to define properties of a voucher such as start, end dates, initial amounts, whether it is transferable to another user, etc. This definition acts as a template for actual vouchers that will be issued later on in bulk or singularly.
3. Create a new product under **Catalog > Products**. Under the **Variant** tab, set your selling price and optionally set a limited inventory if needed. The selling price does not need to match the actual cost of the voucher. For example, you can sell the product at \$25 but give a larger \$30 voucher as a promotion.
4. Edit the details of your variant. Under the variant's **Resource** tab, select the desired voucher definition to automatically assign when that product is purchased.
5. You can repeat the steps above and create different voucher amounts to sell (e.g. \$25, \$50, \$100 vouchers) by assigning different variants to different voucher definitions.

Vouchers are like money and need to be treated with extra precaution. You should verify each order for fraud. Once you're satisfied, you can edit the order detail and click the **Issue voucher** button to generate the voucher for the customer and click the **Email voucher receipt** button to send an email to the customer with the voucher code attached.

If fraud is not an issue with your type of business, you can configure the Storefront to immediately mark all new incoming orders as "Completed" or either payment status as "Paid" to trigger the automatic voucher generation. Once configured, the customer will automatically receive an email with the generated voucher code after a successful checkout. Please see How to force order and payment status (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section>) for more information.

You can customize the email template from the **Configuration > Communication** settings. The customer can also retrieve and lookup their voucher balance from the **Manage Voucher** module. Please see Manage Vouchers (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/manage-vouchers/rvdwkpvm/section>) for more information.

## How to email external license key

If you sell software or any product that needs to generate a license key or serial number from an external system, you can use the Place order action rule to retrieve external resources. Please see Actions

(<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/variant-actions/rvdwkpvm/section>) for more information.

The following example shows how to create a Place order action rule that calls an external URL to retrieve the generated license key and send it to the customer by email.

```
1
2 <xsl:transform xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="2.0">
3   <xsl:template match="/">
4     <!-- Craft our URL to retrieve the license key passing any query parameter -->
5     <xsl:variable name="url" select="concat('http://a.com/gen.asp?o=', /in/salesOrder/salesOrderNumber)"/>
6     <!-- Expect license key in plain text. Use document() function to return complex XML instead. -->
7     <xsl:variable name="key" select="unparsed-text($url)"/>
8     <out>
9       <!-- Send email to customer with their license key -->
10      <sendMail>
11        <mailFrom>support@company.com</mailFrom>
12        <mailTo>
13          <xsl:value-of select="/in/user/email"/>
14        </mailTo>
15        <subject>Your license key</subject>
16        <htmlBody>
17          <h1>
18            <xsl:value-of select="$key"/>
19          </h1>
20        </htmlBody>
21      </sendMail>
22    </out>
23  </xsl:template>
24 </xsl:transform>
25
26
27
```



## How to show product without category

If you want your product to show up when no category is selected by the customer, you need to tick the Featured checkbox under the product's Display tab. Products that are marked as featured will appear on the product list page even if no category is selected.

# How to give first month recurring free

If you sell monthly subscriptions, a good marketing idea is to give the first month free to encourage users to sign up. The customer must always make a first purchase going through the Web checkout process in order for the Storefront to capture any billing and payment information necessary to charge the customer for future occurrences. There are two options to configure your first free product on checkout.

## Using promotion to give first month free

One easy way is to create a promotion rule that gives the discount based on the origin.

1. Under **Marketing > Promotions** menu, click Add new.
2. Give your promotion a name (e.g. "Free first month")
3. Under the Promotion tab, select "Sales order detail" as your promotion type.
4. Choose "Custom rule" for your promotion rule.
5. Enter the following rule to check the order is originating from a Web checkout (origin = 1) and not system recurring. You may need to adjust the rule if you want to put more conditions such as limiting the discount to only a specific variant, etc.

```
<xsl:transform xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="2.0">
  <xsl:template match="/">
    <out>
      <discountAmount>
        <xsl:if test="/in/salesOrder/origin = 1">
          <xsl:value-of select="- 1 * /in/this/salesOrderDetail/price * /in/this/salesOrderDetail/quantity"/>
        </xsl:if>
      </discountAmount>
    </out>
  </xsl:template>
</xsl:transform>
```

## Using required product to give first month free

An alternative approach is to create a different secondary product (you can call it "First Trial" or give it any creative name you like). This simple product has a variant (non-recurring) that requires your actual subscription product. The customer will actually buy your "First Trial" product and the Storefront will automatically set up the future recurring product. You can hide the subscription product since the customer won't be interacting with it.

1. Under **Catalog > Products**, add a new product.
2. Give it a name like "Free Trial" and **Save**.
3. Edit the variant of this product. Notice this variant has a zero dollar price.
4. Under the **Required** tab, add your actual subscription product to it.

5. Uncheck the **Published** and set the **Defer date** to the first occurrence to happen (e.g. 1 month).

6. **Save.**

In both cases, you can choose to collect their credit card information during checkout, but the customer won't get charged since the amount is zero. Of course, if they don't cancel by the end of the month, their credit card will be charged for the renewal going forward. If you don't want to take their credit card information, you can adjust the Availability rule for your payment methods to allow the special "None" payment method when the total amount is zero, and likewise enable the "Credit Card" payment method if the reverse condition is true.

# How to create a deferred product

A deferred product is a good way to accept early commitment for a product but only collect payment later when it begins (e.g. your business is not allowed by law to collect payment before it starts). For example, if you sell courses that begin in September, but you accept early registration from July. You can create a deferred product by following the steps below.

1. Under **Catalog > Products**, create your actual product with the desired name and price as usual. Uncheck the **Published** checkbox so it's hidden from the public catalog. Please see [How to create a simple product](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-a-simple-product/rvdwkpvm/section) (https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-a-simple-product/rvdwkpvm/section) for more information.
2. Create another new product. This will be your dummy product that you will sell right away on the first checkout. Give it a price of \$0.00. Make sure it's marked as published so it's visible in the public catalog. Although, it's a dummy product, it should have a recognizable name so that the customer thinks they're buying the actual product. You can set the inventory for this product if you have limited quantities available.
3. Set your dummy product to require the actual product you created earlier under the **Required** tab.
4. Uncheck the **Published** if you don't want the required product to be visible. Set the **Defer date** to a future date.

The customer browsing your site will see the dummy product for sale and adds it to cart. During checkout, they will be prompted to enter their credit card details. Since the amount is \$0.00, they will not be charged, but their payment information will be kept in the system. When the actual product is due following the configured deferred date, the Storefront will automatically generate a new order and attempt to charge the customer's payment for the amount due.

Alternatively, if you're simply accepting new orders over the phone, you can also create a deferred order by marking the order as "Preordered" with a future **Order date**. Please see [Preorders](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/preorders/rvdwkpvm/section) (https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/preorders/rvdwkpvm/section) for more information.

# How to sell on eBay

You can increase your sales by selling on 3rd party channels like eBay. The Storefront makes it easy to publish and manage your products from a central location.

You must first enable the **Channel** feature under **Configuration > General**. Please read Channels (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/channels/rvdwkpvm/section>) for more information.

The following example shows how to list a product on eBay.com:

1. From the usual **Catalog > Products** page, select your desired product that you like to list on 3rd party channels.

If you intend to use real-time shipping providers, make sure your product variant has the proper physical dimensions configured (width, height, depth, weight) as it may be used by eBay to calculate shipping cost.

By default, the Storefront will use your detailed gallery images (largest images) to publish to eBay. Please note eBay has its own picture requirements (<http://developer.ebay.com/DevZone/guides/ebayfeatures/Development/Pictures-Intro.html>) so you may need to configure your Storefront products to adhere to these requirements first before publishing.

2. Under the **Channels** tab, click on **Add new**.
3. Select the desired provider (e.g. eBay U.S) and fill all the required information. Make sure to read the tooltip next to each field for more information on the different requirements subjected by the provider.

4. Make sure to select at least one category and no more than two categories. You must also specify a variant. If you have multiple variants, you must list them separately by repeating the steps above for each variant. Enter the quantity you have for sale. Please note inventory information is currently not synced back between the Storefront and eBay.
5. You must have at least one domestic shipping. Click on **Add new** to add a shipping method. Select the desired shipping service and click **OK**. All your shipping services must be using the same rate type (calculated or flat rate, but not mixed). eBay allows up to 3 shipping services per rate type.
6. Select the payment methods you will accept for this product listing.

If you intend to offer PayPal, please ensure you have configured your PayPal email address under **Configuration > Payment for PayPal Website Payments Standard**.

Click on the edit icon to enter your PayPal email address. Please note you can ignore the other fields and leave blank if your own site doesn't offer PayPal, but you only offer it for eBay customers. For eBay purposes, only your email

address is required.

Payment gateway

Email:

Username:

Password:

Signature:

Enable shipping form: ☒


Test mode: ☒

[Save](#) [Save & return](#) [Cancel](#)

7. Click **Save**. Congratulations! Your listing is now published on eBay.

- [Revise your item](#)
- [Sell a similar item](#)
- [Create shipping discounts](#)

**Listing info**  
Duration: Good 'till cancelled  
Start time: Sep 16, 2015 06:27:07 PDT



**FREE shipping**

Click to view larger image

**\$ Have one to sell? [Sell it yourself](#)**

### Apple iPad

Item condition: **New**

**US \$599.00**

[Buy It Now](#)

[Add to cart](#)

[Add to Watch list](#)

Shipping: **FREE** - Standard Shipping | [See all details](#)  
Item location: Salt Lake City, Utah, United States  
Ships to: United States

Delivery: **Varies** [?](#)  
Delivers within 1-6 days after seller ships item  
Seller ships same day if paid before **14:00 PDT**  
(excludes weekend and holidays)

Payments: **PayPal**, Visa/MasterCard, Amex, Discover | [See details](#)

Returns: 30 days money back or item exchange, buyer pays return shipping | [Read details](#)

**ebay MONEY BACK GUARANTEE**  
Covers your purchase price and original shipping.  
[Learn more](#)

**Description** **Shipping and payments**

Seller assumes all responsibility for this listing.

**Item specifics**

Condition: New: A brand-new, unused, unopened, undamaged item in its original packaging (where packaging is ... [Read more](#)

Do everything you've always done on your iPad but on a thinner, lighter device that still feels right in your hand. The iPad Air 2 boasts a when launching apps or playing games, plus videos look gorgeous on the Retina display. The Touch ID home button lets you secure you

You can always update your listing as long as it's active on eBay. Once a product has sold or a bid has been placed for an auction, or the **Start Date** has passed, eBay normally does not allow updating the listing. Please verify your Event Viewer if you have any errors saving your channel products.



# How advanced URL provider works

How you present your catalog URL is important for SEO and can help increase sales by making your products more easily discover-able by humans.

Consider a typical product URL contains some query string parameters to allow the computer to return the requested product. Traditionally, the format shown below with the query string parameter appearing after the question mark is the **normal URL form** and is the form that most underlying Web applications can consume and understand.

**`http://site.com/product?rvdsfpid=shoe-3`**

When you enable friendly URL rewriting (<http://www.dnnsoftware.com/wiki/url-rewriting>), the query string parameter may be rewritten as segments in the URL path to provide for a more friendly format. The challenge of rewriting a URL is to not lose any information and allow the friendly form to be converted back to its normal URL form, since that is the form expected by the Web server.

**`http://site.com/product/rvdsfpid/shoe-3`**

While the friendly URL is already a respectable form optimized for search engines and computers, it still contains gibberish data that are undesirable to human. Revindex Storefront 7.3 now includes an advanced URL provider that automatically rewrites your catalog URLs into even shorter and human friendlier form:

**`http://site.com/product/shoe`**

Clearly, the new form is a more human friendly representation of the product over the previous URLs. For the user on the Web browser, it's short to type, easy enough to remember and one can easily swap the keyword "shoe" for another product like "shirt" to locate the next product.

Once again, the challenge of rewriting the URL requires that all of the information can somehow be reversed back to its original normal URL form. We must, therefore, rely on certain strict rules to provide the mechanics to unwind the information. Such rules include the placement of the keyword in the URL path segments, the uniqueness of the "shoe" keyword and among other rules.

From a merchant perspective, you only need to ensure your product keywords are unique. By default, the keyword is chosen from your product name. If, however, a SEO URL name is provided, it will be used in place of the product name. If you have a collision in your product name or SEO URL name, the rewriter will reverse the friendly URL to the first product it found. It is, therefore, extremely important that you give unique product names or unique SEO URL names to your products when using the advanced URL provider. A good name should include just the right amount of keywords to allow for optimal search engine indexing while keeping it short and meaningful for humans. For example, the keywords "genuine leather shoe" provides a richer indexing information while keeping your product URL names sufficiently unique and short. Please see SEO (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/products-seo/rvdwkpvm/section>) for more information.

The advanced URL provider is not limited to products only. It also optimizes for categories, manufacturers, distributors and variants. Similarly, you want to make sure these catalog structures have unique names throughout your system.

**`http://site.com/products/apparels`**

**`http://site.com/product/apparels/shoe`**

**`http://site.com/product/apparels/shoe/brown`**

## What happens to my old URL?

Your old URLs whether they are bookmarked or indexed by search engines will continue to function because the advanced URL provider is meant to be convertible between the two forms.

## Do I need to notify search engines?

It is not necessary since the Storefront will automatically generate canonical hints and sitemap to search engines such that over time, when the crawler bots revisit, they will start indexing and replacing your old URLs with the new ones.

## What happens if I disable advanced URL provider?

Any short friendly URL generated by the advanced URL provider will not be recognized once disabled since there is no engine to rewrite back to the normal URL form. Fortunately, the Storefront automatically publishes sitemap of your products and search engines are usually quite fast to pick up URL changes after a few visits.

## How do I verify for unique keywords?

Firstly, you should have a business procedure for naming your products so that you and your staff is aware of the naming convention that minimizes conflicts to begin with. Once the procedure is in place, you only need to occasionally verify for correctness. The easiest way to visually inspect them is to export out the catalog data and glance through the keywords using Excel.

## How to enable the advanced URL provider

By default, the advanced URL provider is enabled on new installations. If not, you can follow the steps below to enable it:

1. Change the urlFormat attribute to "advanced" in your Web.config

```
<add name="DNNFriendlyUrl" type="DotNetNuke.Services.Url.FriendlyUrl.DNNFriendlyUrlProvider,
DotNetNuke.HttpModules" includePageName="true" regexMatch="a-zA-Z0-9 _-" urlFormat="advanced"/>
```

2. Under **Admin > Site Settings** page, make sure the **Reindex Storefront URL Extension Provider** is enabled under the **Advanced URL Settings** tab.

## Are there other settings that I can tweak?

No additional settings are required. There is an unsupported 3rd party DNN URL Management module (<http://dnnurlmanagement.codeplex.com/>) that provides a user interface for managing general settings for the DNN advanced URL rewriter that you may want to investigate.

# How to delete all products

For your security, we currently do not support deleting products permanently. Products are simply marked as deleted internally and that is the suggested mode.

If you have only been testing and need to permanently delete all products before starting production, you can try to execute these SQL queries. Please make sure to take a full backup, run the queries and test your system afterwards.

We don't support nor encourage deleting products permanently. Use at your own risk.

```
DELETE FROM Revindex_Storefront_RecurringSalesOrder
DELETE FROM Revindex_Storefront_VoucherHistory
DELETE FROM Revindex_Storefront_SalesPayment
DELETE FROM Revindex_Storefront_SalesOrderDetail
DELETE FROM Revindex_Storefront_SalesOrder
DELETE FROM Revindex_Storefront_Gallery WHERE ProductID IS NOT NULL OR ProductVariantID IS NOT NULL
DELETE FROM Revindex_Storefront_ProductAttribute
DELETE FROM Revindex_Storefront_ProductCategory
DELETE FROM Revindex_Storefront_ProductReview
DELETE FROM Revindex_Storefront_ProductVariantOption
DELETE FROM Revindex_Storefront_WishListDetail
DELETE FROM Revindex_Storefront_RequiredProduct
DELETE FROM Revindex_Storefront_ProductVariant
DELETE FROM Revindex_Storefront_ProductVariantGroupOption
DELETE FROM Revindex_Storefront_ProductVariantGroup
DELETE FROM Revindex_Storefront_CrosssellProduct
DELETE FROM Revindex_Storefront_RelatedProduct
DELETE FROM Revindex_Storefront_Product
```

# Vouchers

A voucher is a special form of payment method carrying a predefined monetary value that you can issue from your Storefront. It can only be used to redeem for purchases made on your site using a special code that the customer is required to enter. Common examples include gift cards, gift certificates, store credits, etc.

You must first enable the **Voucher** feature under **Configuration > General**. Once enabled, you can create a voucher definition from the **Catalog > Vouchers** menu to define properties of a voucher such as start, end dates, initial amounts, whether it is transferable to another user, etc. This definition acts as a template for actual vouchers that will be issued later on in bulk or singularly.

A transferable voucher will allow it to be used by anyone who has knowledge of the code and not just by the owner of the voucher.

Only voucher definitions with an Active status can be used for checkout. Since vouchers are usually printed to a physical medium and given away (e.g. gift card), it is recommended that you do not delete a voucher definition as it will also delete all issued vouchers belonging to this voucher definition. Instead, mark the voucher definition as inactive to prevent being used.

Once you have defined your voucher. You can associate your product variant to automatically generate a new voucher of this type when a customer purchases the product. Issued vouchers appear under the **Sales > Vouchers** menu. Please see Vouchers (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-orders-vouchers/rvdwkpvm/section>) for more information on issued vouchers.

# Rights

The Storefront supports the distribution of access rights such as license keys, serial numbers, password or any code from the purchase of a product on your site. If your site sells virtual goods (software, ebook, etc.) that needs to grant user access rights to unlock the purchased item. Please see Downloadable Products (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/downloadable-products/rvdwkpvm/section>) for more information.

In the example of software license keys, you first pre-generate a list of codes and save into the Storefront. When the customer buys the software, the Storefront will automatically issue one of your unassigned license keys to the customer. The customer receives an email with the codes issued and is able to view them from the Manage Rights page.

You must first enable the **Rights** feature under **Configuration > General** settings. Once enabled, you must first define the type of access right under the **Catalog > Rights** menu. Click on **Add new** to create a new right definition. Give your type of right a name and description and **Save**.

Dashboard Catalog Marketing People Sales Configuration Help

### ◀ Right definition: Xbox Game License Key

**General**

Right Definition ID: 1

Seller:

Name: \*

Description:

Type:

**Save** **Save & return** **Cancel**

You can then assign the right definition to your product variant under **Catalog > Products** menu. Choose your desired product and edit the details of your variant. Under the **Resource** tab, select the type of **Rights** to associate this product with your newly defined right.

Variant: Xbox Halo 4 /

General	Description	Attribute	Inventory	Price	Promotion
Recurring	Shipping	Handling	Display	Gallery	SEO
Component	Custom field	Reward	Resource		

Voucher: ?

Download file: ?

Link Type:

☒ None

☐ URL ( A Link To An External Resource )

☐ Page ( A Page On Your Site )

☐ File ( A File On Your Site )

Rights: ?

You are now ready to import your list of codes into the Storefront. This last step is to seed the system with some actual codes that you want to be issued to customer when they purchase this product. Please see Rights (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-rights/rvdwkpvm/section>) for more information on uploading your new codes.

Sales

# Orders

You can search and fulfill customer orders from the **Sales > Orders** menu. Customer orders contain all the information collected during checkout and payment processing including billing, shipping, order detail and payment information. It is important that you verify every order and payment received are valid.



## Order, Payment & Shipping Status

The order, payment and shipping status drive the Storefront operations workflow and reports. For example, downloadable product is only made available to customers for download when the order is marked as "Paid". Sales reporting numbers in the **Dashboard** are determined based on the status of the orders. In practice, individual businesses may interpret the status differently within the context of their operation. See Shopping Cart Flow (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/shopping-cart-flow/rvdwkpvm/section>) for more information on how the different statuses work in different order-to-cash scenarios. Also read How to force order and payment status (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section>) to tell the system how you want it to automatically handle your order statuses after each checkout.

Order Status	Description
Incomplete	An open order that has not yet completed checkout.
Pending	Order is created but is awaiting for a resource or action from merchant or customer. E.g. The merchant suspects the order is missing information and is awaiting confirmation from the customer.
Preordered	Order is created earlier before its actual required date. This status is useful for pre-ordering products or generating invoices ahead of time to bill the customer.
Ordered	Order received but not yet verified. Order still needs to be processed.
Processing	Order is currently being processed.
Completed	Order is paid and shipped.
Cancelled	Order has been cancelled.
Declined	Payment was declined. Merchant declines to process the order.

Payment Status	Description
Pending	Payment has not been received or verified.
Paid	Payment is settled and verified.
Cancelled	Payment has been cancelled.
Refunded	Payment has been refunded.
Declined	Payment is declined by the payment processor.

Shipping Status	Description
Not Required	No shipping is required.
Not Shipped	Shipping is required but has not yet been shipped.
Packing	Products are being packed.
Packed	Products have been packed but not yet shipped.
Dispatching	Packages are sent off for shipping.
Shipped	Products shipped.
Undeliverable	Products failed to ship.

# Payments

It is possible for an order to have more than one payment. For example, a customer may pay a partial amount in credit card and the remaining amount in check. The **Payments** tab keeps track of all payment transactions types including purchases and refunds. Credit card payments are always processed through your configured payment gateway. You can create a new payment transaction by clicking on **Add new**.

You can bypass the payment gateway by issuing manual transaction using any of the buttons marked as "Manual". For example, you may use your virtual terminal to charge or refund amount to the customer's credit card instead of the payment gateway and yet keep track of all the payment information in your store.

Transaction Type	Description
Invoice	Request for payment. Usually for invoices and PayPal payment requests.
Authorize	<p>Payment is reserved but has not yet settled or withdrawn. Most credit card gateways will automatically cancel authorization if a capture is not performed within 24 to 48 hours.</p> <p>You must perform a Capture transaction to actually withdraw the money that you reserved.</p> <p>To cancel an authorization, you must perform a Void transaction.</p>
Capture	Previously authorized payment has settled. To cancel a Capture transaction, you must perform a Refund transaction.
Purchase	Payment is settled and withdrawn. To cancel a purchase, you must perform a Refund transaction.
Void	Payment is cancelled for an authorization transaction.
Refund	Previously settled payment has been refunded.

## How to refund payment

Occasionally, you may need to refund the full or partial amount to your customer from a previous transaction. If your payment gateway supports refunding, you can perform this task from the Storefront Administration module, otherwise you will need to perform the refund from your own merchant virtual terminal.

To refund a payment, go to the Storefront administration's **Sales > Orders** screen. Select the desired sales order. Under the **Payment** tab, look for the "Purchased" or "Captured" transaction entry. Only these transaction types can be refunded. Click on the record to edit the payment. If this is a partial refund, modify the dollar amount to refund (e.g. enter 10.00 to refund \$10.00) or leave the default value to refund the full amount. Click on the **Refund** button. If the refund is successful, a new payment record will be created to indicate the refund transaction and the new sales order's balance due will be recalculated.

Please note the **Manual refund** button does not actually refund any money but merely records the transaction in your Storefront for your own historical keeping. You must refund through your own merchant virtual terminal.

# Preorders

A preorder is used to temporarily hold the order for a short period of time awaiting for customer approval, product inventory or some other reason. A preorder is simply an order with the status of "Preordered". It is a way to indicate that the order has all the billing, shipping and all other information necessary to calculate the total amount due but has not yet been actualized. Because a preorder is fully calculated, it is sufficient to be used to send an invoice to the customer to request payment or approval.

## Preorder for recurring products

For example, if you sell recurring orders (subscriptions) and you need to invoice your customers ahead of time, you can benefit by configuring the Storefront to pre-generate the orders days ahead of the actual renewal date. A preorder is useful for companies that have their own purchasing department. These customers often require an invoice before approving any payment. It is also a good way to notify customers ahead of time so they can ensure their payment information are up-to-date.

For a recurring product, you can configure your product variant to preorder by the number of days ahead of the actual recurring date.

## Preorder for pre-selling products

Another good use of preorder is to pre-sell products that are not yet available. For example, if your business sells mobile phones and you're accepting preorders for the next generation of iPhones that has not yet been released.

Make sure to create the product first and optionally set the inventory value to zero. You can then collect all the customer information by phone and create a preorder for them. Make sure to set the **Order date** to a date in the future when you think this order should be actualized. As soon as the product inventory becomes available, you can manually actualize the order or let the system do it.

Alternatively, you can also create a deferred product to collect payment at a later date. Please see [How to create a deferred product \(https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-a-deferred-product/rvdwkpvm/section\)](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-create-a-deferred-product/rvdwkpvm/section) for more information.

## Automatically actualizing the order

Just like a regular order, you can capture payment manually and convert the preorder to an order. You can also allow the system to automatically convert the preorder for you and capture payment if a suitable preferred user payment is set. You may need to enable the **Sales order** feature under **Configuration > General** settings first. Then under **Configuration > Sales order**, you can set the **Preorder process behavior** to automatically process the preorders due. The preorders will be actualized based on their future **Order dates**.

# How to accept offline orders

There are several ways you can handle offline orders (orders that come in by phone, fax, in-person, etc.).

## Creating offline orders by impersonating as the customer

The easiest way to take offline orders is to open a new browser, register the user and go through the shopping checkout as the customer would. If the user account already exists, you may choose to use Revindex Impersonator (<http://www.revindex.com/ProductDetail/tabid/138/rvdsfpid/revindex-impersonator-1-0-4/Default.aspx>) to quickly login as the customer for the purpose of placing the order on his behalf, and easily restore back to your account once done.

## Creating offline orders directly from the sales admin screen

You can also create new orders from the **Sales > Orders** menu in the Storefront module just like you could edit an existing order.

1. Click **Add new**
2. Click on edit user icon if you need to create the user account first, otherwise enter the username.
3. Fill the form (billing, shipping address, etc.). If this is for an existing user, you can select from **Use address book** dropdown to populate addresses. You can also use the **Copy from billing** to populate the shipping address.
4. Click **Save**.
5. Under the Order detail section, click **Add new** to add products to the order.
6. Search for the product to add in the dropdown list.
7. Fill any required fields in the form (quantity, custom fields, etc.).
8. Click **Save order detail**.
9. If your products require shipping, you want to go back to the order and select a packing method and one of shipping methods and **Save**.
10. Click **Recalculate all** to recalculate the total amount, shipping, handling and taxes. Adjust the selected shipping method as needed.
11. Under the Payment tab, click **Add new**.
12. Enter the amount equivalent to the total amount calculated for the order.
13. Select the payment method and fill the required fields.
14. Click **Purchase** or **Authorize** to take the payment.
15. Click **Decrement inventory** to reduce inventory of your products
16. Click **Run place order action** to execute any product or checkout actions you have.

17. Click **Email receipt** to send the order receipt to the customer.
18. Remember to change the order, payment and shipping statuses (e.g. "Completed", "Paid", "Shipped") once you're done with the order.

## Why do order numbers skip?

Starting with v6.5, Revindex Storefront maintains its own sequence ensuring order numbers are sequential and continuous. This improvement is especially important to ensure compliance with tax regulations (e.g. UK VAT laws (<http://www.hmrc.gov.uk/vat/managing/charging/vat-invoices.htm>) and New York tax laws ([http://www.tax.ny.gov/pubs\\_and\\_bulls/tg\\_bulletins/st/record-keeping\\_requirements\\_for\\_sales\\_tax\\_vendors.htm](http://www.tax.ny.gov/pubs_and_bulls/tg_bulletins/st/record-keeping_requirements_for_sales_tax_vendors.htm)) require that order numbers be serially continuous and any skipped numbers must be justified to the auditor or be subjected to penalties).

For older Storefront versions, on rare occasion, you may notice that your order numbers may have skipped some numbers (e.g. 1,2,3,5...). This is perfectly normal and does not indicate a lost of order. Revindex Storefront makes extensive use of SQL transactions to maintain database integrity. SQL server guarantees an identity sequence column to be unique but is allowed to skip a number when the transaction is rolled back or cancelled.

Furthermore, as of SQL Server 2012 and newer, order numbers may skip by as large as 1000 when the database server is restarted due to the new identity seeding algorithm used in Microsoft SQL Server. This behavior affects any database table and is not limited to Revindex Storefront tables. Because Revindex Storefront 6.5 and newer generates its own order number, it is immune from this problem. For older versions of Revindex Storefront, you can configure SQL Server to use the old method of allocating identity numbers by following the steps below:

1. Open SQL Server Configuration Manager.
2. Click **SQL Server Services** on the left pane.
3. Right-click on your SQL Server instance name on the right pane to open the Properties window. The default instance is "SQL Server(MSSQLSERVER)".
4. Click **Startup Parameters**.
5. On the "Specify a startup parameter" textbox, type "-T272"
6. Click **Add**.
7. Confirm the changes.



## How to auto delete incomplete orders

Incomplete orders are orders placed by customers that haven't completed checkout. For example, a customer adds a product to his cart but failed to complete checkout due to insufficient funds in his credit card and decided to hold off the purchase. Keeping record of incomplete orders presents an opportunity to lure the customers back via cart abandon email (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/cart-abandon-email/rvdwkpvm/section>) and provides good statistical information to better understand the shopping behavior of your customers. However, as time passes, it may be useful to delete some of these incomplete orders to shrink the amount of data and clutter.

To automatically delete incomplete orders, you must first enable the **Sales order** feature under **Configuration > General**. Once enabled, you can enter a value for the **Days before deleting incomplete orders** under **Configuration > Sales order** setting. Generally, the number of days should be greater than your cart abandon (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/cart-abandon-email/rvdwkpvm/section>) and session timeout (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-increase-cart-session-time/rvdwkpvm/section>) settings to avoid deleting an active customer cart still in progress.

Remember to consider the implications of deleting incomplete orders whether for statistics or tax liabilities. Once deleted, the orders cannot be retrieved.

## How to delete all orders

For your security, we currently do not support deleting orders. Instead, we suggest you cancel the orders.

If you have only been testing and need to delete all orders before starting production, you can try to execute these SQL queries. Please make sure to take a full backup, run the queries and test your system afterwards.

We don't support nor encourage deleting orders. Use at your own risk.

```
DELETE FROM Revindex_Storefront_RecurringSalesOrder
```

```
DELETE FROM Revindex_Storefront_VoucherHistory
```

```
DELETE FROM Revindex_Storefront_Voucher
```

```
DELETE FROM Revindex_Storefront_RewardsPointHistory
```

```
DELETE FROM Revindex_Storefront_SalesPayment
```

```
DELETE FROM Revindex_Storefront_SalesOrderDetail
```

```
DELETE FROM Revindex_Storefront_SalesOrder
```

# Recurring Orders

If you sell subscription products, your customer may have active recurring orders in the system that will automatically re-order and charge the customer according to the recurring interval set for the product. You must first enable the **Recurring orders** feature under **Configuration > General** to use this functionality. Once enabled, you can search and manage customer recurring orders from the **Sales > Recurring Orders** menu. From this page, you can terminate a recurring order, change the next recurring date, modify the quantity and update the billing and shipping information.

Re-orders occur on day of the **Next recurring date**. You can delay or reset a recurring order by modifying the **Next recurring date** value.

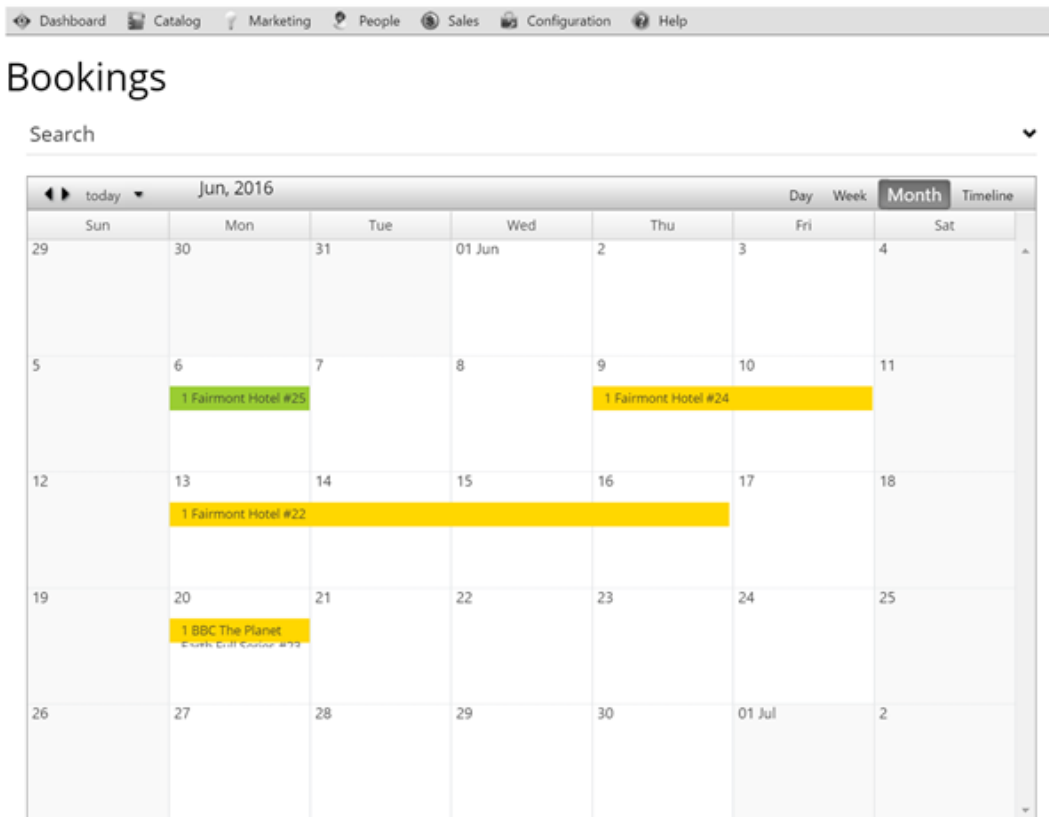
A re-order happens in the system background and will create a new order entry visible under **Sales > Orders** menu. It is important that you verify that the order and payment are valid. If a customer has multiple recurring orders with the same billing and shipping information, by default, the Storefront is configured to automatically group the set of recurring orders into a single new order at the moment of the re-ordering to minimize shipping charges and payment transaction fees. You can also configure recurring orders so that they don't group together.

Depending on the payment gateway being used, a recurring order may be created with or without a corresponding payment. If an automatic payment failed (e.g. credit card expired) or is not able to be created (payment gateway doesn't support recurring orders), you will have to manually contact the customer to collect payment. Please see the **Payment Gateways** section for more information.

If you're running tests on a development/staging machine with production data copied over and you sell recurring products, make sure to disable any recurring orders or change the payment gateway credentials, otherwise it will automatically charge your customer's credit card when the order is due for renewal.

# Bookings

You must first enable the **Booking products** feature under **Configuration > Product** settings. Once enabled, you can get a high level view or all your booked orders from **Sales > Bookings** menu. You can switch between daily, weekly, monthly or full timeline view to see differently levels of detail. Clicking on individual entries will allow you to manage the booked order. Please see Booking products (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/booking-products/rvdwkpvm/section>) for more information.



# Rights

A right is a secret code (license key, serial number, password, etc.) that is usually used to unlock access to a virtual product that you can issue from your Storefront. Please see Rights (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/catalog-rights/rvdwkpvm/section>) for more information on how to create different types of rights.

You must first enable the **Rights** feature under **Configuration > General** settings. Once enabled, you can access the **Sales > Rights** menu to view, modify or issue new rights based on the right definitions you previously created. Unassigned rights stored here are ready to be issued to a new customer when they purchase your product. Customer will receive an email with their codes and can view their rights from the Manage Right module. Please see Manage Rights (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/manage-rights/rvdwkpvm/section>) for more information.

For security purposes, access rights are only issued once the order is marked as "Paid" or "Completed". You can also search for rights that have already been issued.

Dashboard

Catalog

Marketing

People

Sales

Configuration

Help

Rights

Search

Seller: ⓘ

Right definition: Any

Code: ⓘ

Username: ⓘ

Search

		Code	Issue date
✎	🗑	54272002-7272-4E93-A55F-3A3AE7B98416	
✎	🗑	6347384D-25C2-4356-930C-DB974C9F8F6B	2016-02-06
✎	🗑	AE5F7999-DF2A-46E1-9653-300652D61A51	

Add new

Import

Export

To create multiple rights in bulk, you may import then into the Storefront. Please see Import and Export (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-and-export/rvdwkpvm/section>) for more information.

# Vouchers

A voucher is a special form of payment method carrying a predefined monetary value that you can issue from your Storefront. It can only be used to redeem for purchases made on your site using a special code that the customer is required to enter. Common examples include gift cards, gift certificates, store credits, etc.

You must first enable the **Voucher** feature under **Configuration > General**. Once enabled, you can access the **Sales > Vouchers** menu to view, modify or issue new vouchers based on the voucher definitions you previously created. Please see Vouchers (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/catalog-vouchers/rvdwkpvm/section>) for more information. Each voucher carries a unique code that cannot be changed once issued. A voucher also has a running balance that will decrement when being used by the customer to purchase a product. Any monetary changes to the voucher by the store operator or by the customer making a purchase will be recorded under its history tab.

Only vouchers with an Active status can be used for checkout. Since vouchers are usually printed to a physical medium and given away (e.g. gift card, gift certificate), it is recommended that you do not delete a voucher as it becomes unrecoverable. Instead, set its status to Cancelled, Hold or Inactive to prevent usage. For security purposes, the voucher codes are strongly encrypted in the database to protect against hackers compromising your data and invalidating your customer voucher codes that have been issued. Voucher codes should be kept safely from unauthorized access on a need to know basis.

If you sell vouchers online, you need to pay special attention because vouchers are like real money. For security reasons, the system will not generate the voucher automatically after checkout unless if you configured the Storefront to automatically mark your order as Completed or Paid (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section>). Otherwise, it's expected that you intend to review the order and payment first and you will manually issue the voucher from the sales order detail screen.

To create multiple vouchers in bulk, simply enter the desired quantity after clicking on the **Add new** button prior to saving.

# Marketing

# Coupons

Create coupons from the **Marketing > Coupons** menu. Coupons are simply unique codes that you create to give to your customers and for them to hand-in during checkout. It's a useful way to limit a promotion given out to only those who have the code (e.g. give 10% discount to only users who read your newsletter).

Coupons by themselves do not perform any action. They need to be associated to a marketing promotion or place order action rule. During checkout, the promotion and place order action rules can trigger against the collected coupon codes and determine what discount or action to take. Only promotion types that occur during checkout stage can trigger against coupon codes collected (i.e. Sales Order Detail, Shipping, Handling, Tax promotion types). Please see Promotions (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/promotions/rvdwkpvm/section>) section for more information. Place order action rules can also trigger against the collected coupon codes and perform actions such as assigning a security role. See Actions (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/checkout-actions/rvdwkpvm/section>) section for more information.

You can control when a coupon is valid using the **Start** and **Stop date** fields. You can also limit the number of available coupons using the **Inventory** field. The available coupons will be decremented by one every time a coupon is remitted.

DashboardCatalogSalesMarketingConfiguration

Code	Active	Start Date	Stop Date		
free1	<input checked="" type="checkbox"/>			Select	Delete
free2	<input checked="" type="checkbox"/>			Select	Delete
free3	<input checked="" type="checkbox"/>			Select	Delete
free4	<input checked="" type="checkbox"/>			Select	Delete
tess	<input checked="" type="checkbox"/>			Select	Delete

Add New...

GeneralAvailability

Name:

10% off all products

Description:

Active:

☒

Start Date:

YYYY-MM-DD

Stop Date:

YYYY-MM-DD

Inventory:

Save



## Coupon Availability

The coupon availability rule can be used to decide when and how a coupon can be used. For example, you may not allow the coupon to be combined with other coupons or you may want to limit the number of times a coupon can be used by the same user.

Code	Active	Start date	Stop date		
free1	<input checked="" type="checkbox"/>			Select	Delete
free2	<input checked="" type="checkbox"/>			Select	Delete
free3a	<input checked="" type="checkbox"/>			Select	Delete
free4	<input type="checkbox"/>			Select	Delete
free5	<input checked="" type="checkbox"/>			Select	Delete
free6	<input checked="" type="checkbox"/>			Select	Delete
less	<input type="checkbox"/>			Select	Delete

[Add new](#)

[Save](#)

General

Availability

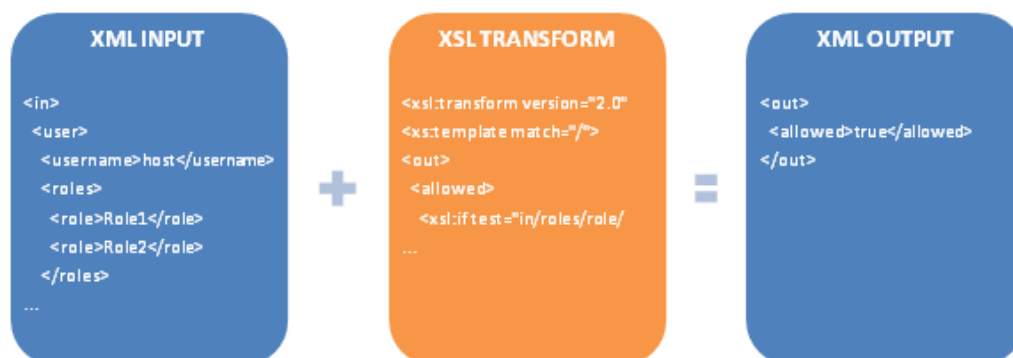
Availability rule:

Max usage per user:

Coupon combination: ☒ Allow all except listed below ☐ Allow only those listed below

Coupons: ☐ free1 ☐ free3a ☐ free5 ☐ free6 ☐ less  
☒ free2 ☐ free4

The coupon availability rule can also use XSL transform to determine whether this coupon is available for use. For example, you may restrict the coupon to a single use per customer or the coupon should not be allowed to combine with another coupon. You can also restrict the coupon to members only. The expected output should return "true" to indicate this coupon is available for use under the input conditions, otherwise "false" if disallowed. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Promotions

Revindex Storefront supports your most creative promotion rules to help you sell more. Promotions are created from the **Marketing > Promotions** menu. Promotions can apply to different levels of the shopping cart from product, sales order detail, shipping, handling to tax types. You can set the promotion to run only within a time frame using the **Start** and **Stop Date** fields. The **Run order** determines which promotions within its type should execute first. For example, you may have a product type promotion that gives 10% discount on all items and another product type promotion that gives 50% discount on discontinued products, but it shouldn't include the first 10% discount (i.e. you don't want to give 50% discount on top of the 10% already discounted). In this case, you would run the 10% discount first and let the 50% discount run second with business logic to cancel the first discount.

DashboardCatalogSalesMarketingConfiguration

Type	Run Order	Name	Active	Start Date	Stop Date		
Product	1	Additional 10% off on sale price	<input type="checkbox"/>			Select	Delete
Product	0	10% Discount on all items in store	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	0	Test	<input type="checkbox"/>			Select	Delete
Shipping	0	Free shipping	<input checked="" type="checkbox"/>			Select	Delete
Tax	0	Free Tax	<input type="checkbox"/>			Select	Delete

Add New...

GeneralPromotion

Promotion Type:

Product

Name:

Additional 10% off on sale price

Description:

Active:

☐

Start Date:

YYYY-MM-DD

Stop Date:

YYYY-MM-DD

Run Order:

1

# Handling Type Promotion

A handling type promotion allows you to offer a discount on handling fees during checkout (e.g. no handling fees on all products, or no handling fees if a coupon is presented). Customers will see the discount applied to the handling fee during checkout.

DashboardCatalogSalesMarketingConfiguration

Type	Run order	Name	Active	Start date	Stop date		
Product	0	10% Quantity tier discount on all products	<input type="checkbox"/>			Select	Delete
Product	1	Additional 10% off on sale price	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	0	Test	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Flat discount	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Free	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	X for the price of Y	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	First month no charge on recurring	<input type="checkbox"/>			Select	Delete
Shipping	0	10% Discount on shipping	<input checked="" type="checkbox"/>			Select	Delete
Handling	1000	10% Discount on handling	<input checked="" type="checkbox"/>			Select	Delete
Tax	0	Free Tax	<input checked="" type="checkbox"/>			Select	Delete

Add new

Data has been saved.

Save

GeneralPromotion

Promotion type:

Handling - apply to handling checkout

Promotion rule:

Flat discount - discount by amount or rate

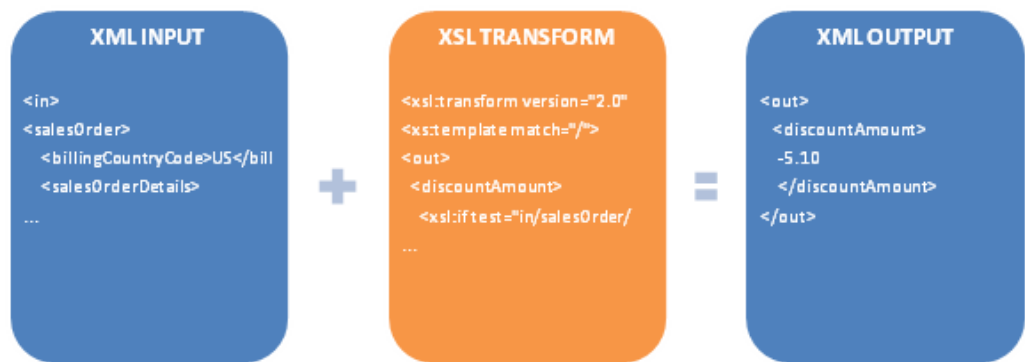
Discount:

2.0000

By percentage

Require coupon:

The promotion rule can also use XSL transform for complex promotions. The expected output should return the discount amount (a negative value) to apply, otherwise zero if no discount is to be given. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Product Type Promotion

A product type promotion allows you to offer a storewide price promotion on products (e.g. 10% discount on all the products in your store, or 10% discount on all products belonging to a category or perhaps even an additional 5% to members only on top of the first discount). Customers will see the discounted price before adding item to the shopping cart.

DashboardCatalogSalesMarketingConfiguration

Type	Run order	Name	Active	Start date	Stop date		
Product	0	10% Quantity tier discount on all products	<input type="checkbox"/>			Select	Delete
Product	1	Additional 10% off on sale price	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	0	Test	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Flat discount	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Free	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	X for the price of Y	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	First month no charge on recurring	<input type="checkbox"/>			Select	Delete
Shipping	0	Free shipping	<input checked="" type="checkbox"/>			Select	Delete
Handling	1000	Handling	<input checked="" type="checkbox"/>			Select	Delete
Tax	0	Free Tax	<input checked="" type="checkbox"/>			Select	Delete

Add new

Data has been saved.

Save

GeneralPromotion

Promotion type:Product - apply to product before add to cart

Promotion rule:Tier discount - discount by quantity, role...

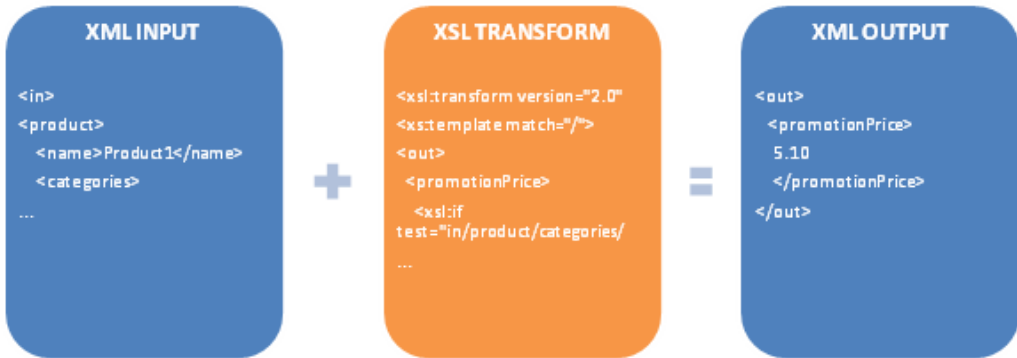
Minimum promotion price:0.0000

Range:

Qty Begin	Qty End	Categories	Roles	Discount		
1	14	Only Business,	All except	10%	Select	Delete

Add new

The promotion rule can also use XSL transform and will apply on products described in the rule. The expected output should return the discounted promotion price, otherwise the regular price. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Sales Order Detail Type Promotion

A sales order detail type promotion allows you to offer a discount on purchases during checkout (e.g. buy 2 for the price of 1, or get additional 10% discount if a coupon is presented). Customers will see the discount applied during checkout.

DashboardCatalogSalesMarketingConfiguration

Type	Run order	Name	Active	Start date	Stop date		
Product	0	10% Quantity tier discount on all products	<input type="checkbox"/>			Select	Delete
Product	1	Additional 10% off on sale price	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	0	Test	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Flat discount	<input checked="" type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Free	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	X for the price of Y	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	First month no charge on recurring	<input type="checkbox"/>			Select	Delete
Shipping	0	Free shipping	<input checked="" type="checkbox"/>			Select	Delete
Handling	1000	Handling	<input checked="" type="checkbox"/>			Select	Delete
Tax	0	Free Tax	<input checked="" type="checkbox"/>			Select	Delete

Add new

Save

GeneralPromotion

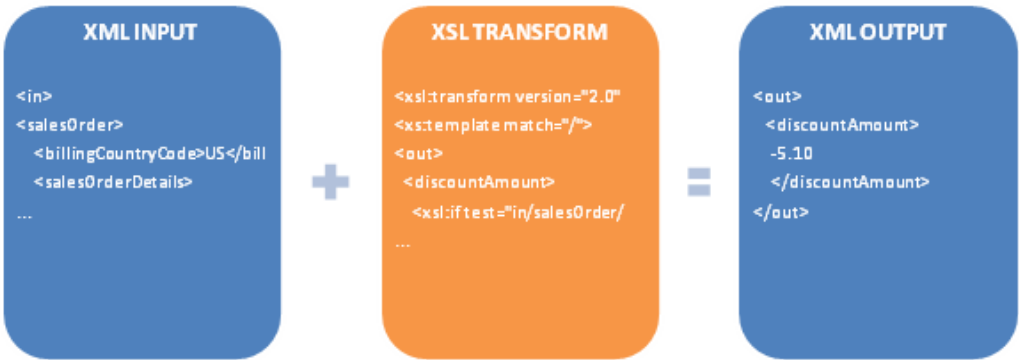
Promotion type:Sales Order Detail - apply to items in cart

Promotion rule:Flat discount - discount by amount or rate

Discount:2.0000By amount

Require coupon:free3a

The promotion rule can also use XSL transform. The expected output should return the discount amount (a negative value) to apply, otherwise zero if no discount is to be given. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Shipping Type Promotion

A shipping type promotion allows you to offer a discount on shipping during checkout (e.g. free shipping on all products, or free shipping if a coupon is presented). Customers will see the discount applied to the shipping fee during checkout.

DashboardCatalogSalesMarketingConfiguration

Type	Run order	Name	Active	Start date	Stop date		
Product	0	10% Quantity tier discount on all products	<input type="checkbox"/>			Select	Delete
Product	1	Additional 10% off on sale price	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	0	Test	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Flat discount	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Free	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	X for the price of Y	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	First month no charge on recurring	<input type="checkbox"/>			Select	Delete
Shipping	0	10% Discount on shipping	<input checked="" type="checkbox"/>			Select	Delete
Handling	1000	Handling	<input checked="" type="checkbox"/>			Select	Delete
Tax	0	Free Tax	<input checked="" type="checkbox"/>			Select	Delete

Add new

Save

GeneralPromotion

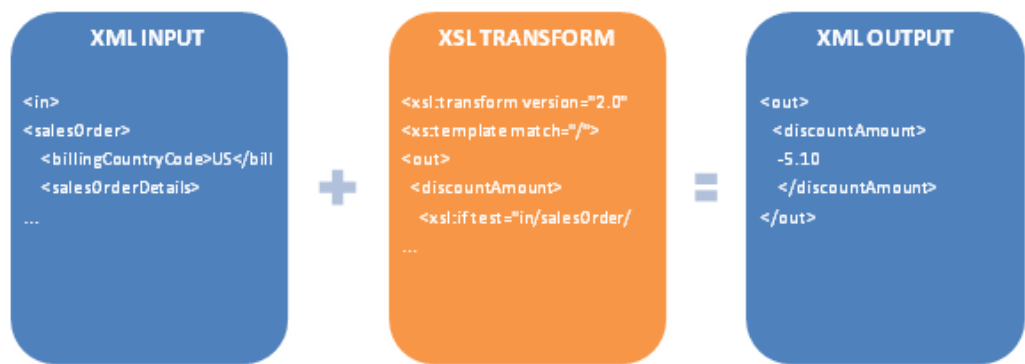
Promotion type:Shipping - apply to shipping checkout

Promotion rule:Flat discount - discount by amount or rate

Discount:10.0000By percentage

Require coupon:free1

The promotion rule can also use XSL transform for complex promotion. The expected output should return the discount amount (a negative value) to apply, otherwise zero if no discount is to be given. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Tax Type Promotion

A tax type promotion allows you to offer a discount on taxes during checkout (e.g. No tax charges on Friday, or no tax if a coupon is presented). Customers will see the discount applied to the handling fee during checkout.

DashboardCatalogSalesMarketingConfiguration

Type	Run order	Name	Active	Start date	Stop date		
Product	0	10% Quantity tier discount on all products	<input type="checkbox"/>			Select	Delete
Product	1	Additional 10% off on sale price	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	0	Test	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Flat discount	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	Free	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	X for the price of Y	<input type="checkbox"/>			Select	Delete
SalesOrderDetail	1000	First month no charge on recurring	<input type="checkbox"/>			Select	Delete
Shipping	0	10% Discount on shipping	<input checked="" type="checkbox"/>			Select	Delete
Handling	1000	10% Discount on handling	<input checked="" type="checkbox"/>			Select	Delete
Tax	0	Free Tax	<input checked="" type="checkbox"/>			Select	Delete

Add new

Save

GeneralPromotion

Promotion type:

Tax - apply to tax checkout

Promotion rule:

Flat discount - discount by amount or rate

Discount:

100.0000

By percentage

Require coupon:

The promotion rule can also use XSL transform for complex promotions. The expected output should return the discount amount (a negative value) to apply, otherwise zero if no discount is to be given. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



# Access Control

Limit access to the Storefront module control can be controlled via the standard permissions module settings in DNN. You can restrict view or edit access to parts of the management screen to a selected number of employees in your company.

Permissions:

Filter By Group: < Global Roles >

	View Module	Edit Module	View Catalog	Edit Catalog	View Sales	Edit Sales	View Marketing	Edit Marketing	View Configuration	Edit Configuration	View Dashboard	Edit Dashboard
Administrators												
All Users												
Registered Users		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Subscribers		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unauthenticated Users		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Username:  Add

☒ Inherit View permissions from Page



# Log Level

You can configure how much information is being logged to the site's Event Viewer by configuring the log level under **Configuration > General**. Currently, you can choose between errors only or include debug messages.

The debug log level is useful for displaying actual XSL transform input, response data from shipping providers and payment gateways.

The debug log level writes a lot of data including all errors to the Event Viewer and may have an impact on performance. It is recommended to use error log level when in production.

To enable debugging, you must first make sure your Event Viewer is able to capture debug logs by following the steps below:

1. Under your site's **Manage > Admin Logs**, go to the **Log Settings**.
2. If you don't see "Debug Info" active in the list, click on **Add Log Setting**.
3. Tick the **Logging** checkbox and choose **Log Type** = "Debug Info". Click **Save**.

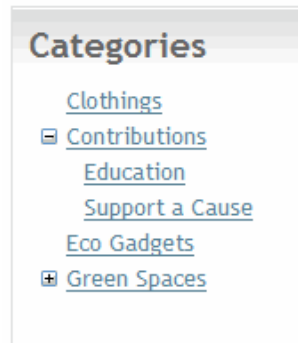
Now, you need to tell the Storefront to start logging in debug more

1. Under your Storefront administration **Configuration > General** settings, select **Log Level** = "Debug".

# Category

The **Category** module control displays the categories used for grouping products and helps improve the browsing experience. It is recommended to place this module on the left or right side pane on your page and set it to appear on all pages visible for all users. You may rename the module title to something friendlier like “Categories”.

To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Category** menu.



## How to expand all categories

The latest Revindex Storefront uses a Telerik RadTreeView control to render the categories. To expand all the categories, you can create a custom display template and add a OnClientLoad event with some javascript.

```
1
2 <%@ Control Language="C#" AutoEventWireup="true" CodeBehind="Display.ascx.cs"
3 Inherits="Revindex.Dnn.RevindexStorefront.Portals._default.Display.Category.Standard3.Display" %>
4 <%@ Register Assembly="DotNetNuke.Web.Deprecated" Namespace="DotNetNuke.Web.UI.WebControls" TagPrefix="dnn2" %>
5 <div class="rvdsfCategoryContainer">
6   <dnn2:DnnTreeView ID="CategoryDnnTreeView" runat="server" ShowLineImages="false"
7   CssClass="rvdsfCategoryTreeView" Skin="" OnClientLoad="CategoryDnnTreeView_Loaded">
8     <NodeTemplate>
9       <a href='<## DataBinder.Eval(Container, "NavigateUrl") %>'>
10        <## DataBinder.Eval(Container, "Text") %></a>
11     </NodeTemplate>
12   </dnn2:DnnTreeView>
13 </div>
14 <script type="text/javascript">
15 function CategoryDnnTreeView_Loaded(treeView, args)
16 {
17   var nodes = treeView.get_allNodes();
18   for (var i = 0; i < nodes.length; i++)
19   {
20     if (nodes[i].get_nodes() != null)
21       nodes[i].expand();
22   }
23 }
24 </script>
25
```

# How to add categories to Web site menu

By default, the Storefront displays your categories on the Category module, which can be placed anywhere on your page. Please see [for more information](#).

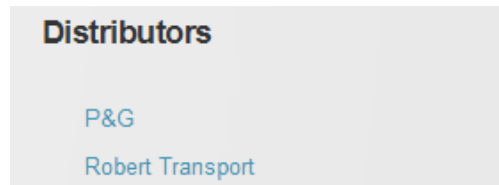
If you also like the categories to appear on your Web site's main menu, you simply need to create actual pages and link to the category URL. Fortunately, most categories are relatively static and remains unchanged once created.

1. We recommend you first navigate to the page where you currently have the Category module so you can refer to it to find the category URL easily as you'll be doing a lot of repetitive copy and paste.
2. Hover over your Category module and copy the first category URL.
3. Click on **DNN:Pages > Add New Page** to add a new page.
4. Give the new page the same name as your category (e.g. "Cameras")
5. Select the appropriate **Parent Page** dropdown if this category should belong underneath a parent category.
6. Make sure to select the **Include In Menu** checkbox.
7. Under the **Permissions** tab, make sure to allow **View Page** permission to **All Users**.
8. Under the **Advanced Settings** tab and scroll to **Other Settings** section. In the **Link URL** property, select the **URL** type and paste your category URL. Select the **Permanently Redirect** checkbox to optimize for SEO ranking.
9. Save and repeat the steps above for all your other categories.

## Distributor

The **Distributor** module control displays the distributors used for navigating products by brands. It is recommended to place this module on the left or right side pane on your page and set it to appear on all pages visible for all users. You may rename the module title to something friendlier like "Suppliers" or "Distributors".

To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Distributor** menu.



# Manufacturer

The **Manufacturer** module control displays the manufacturers used for navigating products by brands. It is recommended to place this module on the left or right side pane on your page and set it to appear on all pages visible for all users. You may rename the module title to something friendlier like "Brands" or "Manufacturers".


To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Manufacturer** menu.





## Product List


The **Product List** module control lists all the products associated with the user-selected category. This module should be visible to all users. The module title automatically changes to take the category name. If a product is marked as “Featured”, the product will be displayed on the **Product List** module control even if no category is selected.

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View: [Grid](#) Sort: [Recommended](#) Page items: [10](#) [Previous](#) [1](#) [Next](#)

[Compare](#)

[BBC The Planet Earth Complete Series](#)


You'll be amazed with this stunning series about our planet's best-loved, wildest and most elusive creatures, captured on high-definition film. Get reduced price when you buy 2 or more!

★★★★★

Price: USD \$50.00

Qty:

[Add to cart](#) [Buy now](#)

[Compare](#)

[Coffee Plant](#)

This tidy houseplant is beautiful to look at and will make your house warm and inviting. The berries grown can be roasted to make delicious coffee you can consume.

★★★★★


Sale: ~~USD \$9.99~~

Price: ~~USD \$12.99~~

Save: **USD \$3.00 (24%)**

Qty:

[Add to cart](#) [Buy now](#)

[Compare](#)


[Eco Tablet](#)

This eco-friendly low-power consumption tablet is ideal for trekking in the woods while you search for wildlife habitats. Configure your hardware options.

★★★★☆

Price: USD \$199.00

[See details](#)

[Compare](#)

[October Glory Maple Tree](#)

This tree has the brightest red fall foliage of any fast growing tree and is surely to impress your neighbors.

★★★★★

Price: USD \$59.95

Qty:

[Add to cart](#) [Buy now](#)

To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Product list** menu.

## Hosting Multiple Module Controls

The Storefront supports hosting more than one instance of this module on the Web site. This is useful for displaying featured products on a different page like the home page. In this case, you would create a custom **Product List** display template from the **Configuration > Display templates** menu. In the custom template, you can force it to display products from a specific category by setting the ASP.NET hidden **Value** property to the category's ID value.

```
<asp:HiddenField ID="OverrideCategoryIDHiddenField" runat="server" Value="57" />
```

Then, return to the new module instance and click on **Edit Content** from the module's **Action** menu to change the display template.



Now you have two instances running, you need to mark the one of the two module instances as the default instance where all category navigation will point to. You can mark as default instance from the **Edit Content** on the module action menu.





# How to change default sort order

To change the product list to sort by a different order:

1. Create a custom display template from the Storefront's **Configuration > Display templates** menu.
2. Select the "Product list" module control and **Add new**.
3. Give the new custom display template a name (e.g. CustomProductList)
4. Always choose the latest **Base display template** with the highest version number.
5. Look for the desired sort order line and add the **Selected="True"** attribute as shown in the example below:

```
<asp:DropDownList ID="PageViewDisplayOrderDropDownList" runat="server" AutoPostBack="True"
OnSelectedIndexChanged="PageViewDisplayOrderDropDownList_SelectedIndexChanged">
<asp:ListItem Value="1" resourcekey="RecommendedPageViewDisplayOrderListItem">Recommended</asp:ListItem>
<asp:ListItem Value="2" resourcekey="ProductNameAZPageViewDisplayOrderListItem" Selected="True" >Product
Name A to Z</asp:ListItem>
<asp:ListItem Value="3" resourcekey="ProductNameZAPageViewDisplayOrderListItem">Product Name Z to
A</asp:ListItem>
<asp:ListItem Value="4" resourcekey="PriceLowHighPageViewDisplayOrderListItem">Price Low to
High</asp:ListItem>
<asp:ListItem Value="5" resourcekey="PriceHighLowPageViewDisplayOrderListItem">Price High to
Low</asp:ListItem>
<asp:ListItem Value="6" resourcekey="RatingLowHighPageViewDisplayOrderListItem">Rating Low to
High</asp:ListItem>
<asp:ListItem Value="7" resourcekey="RatingHighLowPageViewDisplayOrderListItem">Rating High to
Low</asp:ListItem>
</asp:DropDownList>
```

6. Save the display template.
7. Under **Configuration > Product list** menu, set the **Display template** to your newly created custom display template.

# How to change the number of grid columns

By default, the product list displays products arranged in grid view format of 2 columns. In order to change the number of columns, you need to:

1. Create a custom display template from the Storefront's **Configuration > Display templates** menu.
2. Select the "Product list" module control and **Add new**.
3. Give the new custom display template a name (e.g. CustomProductList)
4. Always choose the latest **Base display template** with the highest version number.
5. Look for the following line and change the **GroupItemCount** attribute value to the number of columns you wish to render:

```
<asp:ListView ID="ProductListListView" runat="server" GroupItemCount="2"  
OnPagePropertiesChanging="ProductListListView_PagePropertiesChanging"  
OnItemDataBound="ProductListListView_ItemDataBound" DataKeyNames="ProductVariantID"  
OnItemCommand="ProductListListView_ItemCommand">
```

6. Save the display template.
7. Under **Configuration > Product list** menu, set the **Display template** to your newly created custom display template.

## How to change page size

By default, the product list module control offers different selection choice of page size that affects the number of items displayed on the page at a time (e.g. 10, 20, 50). If you want to change the default selection, you can simply create a custom display template for the Product list module control and apply for the following changes. Please see Display Templates (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/display-templates/rvdwkpvm/section>) for more info. Look for the following lines below and add a `Selected="true"` attribute to the desired list item.

```
<asp:DropDownList ID="PageViewSizeDropDownList" runat="server" AutoPostBack="True"
OnSelectedIndexChanged="PageViewSizeDropDownList_SelectedIndexChanged">
<asp:ListItem Value="10" resourcekey="TenPageViewSizeListItem">10</asp:ListItem>
<asp:ListItem Value="20" resourcekey="TwentyPageViewSizeListItem" Selected="true">20</asp:ListItem>
<asp:ListItem Value="50" resourcekey="FiftyPageViewSizeListItem">50</asp:ListItem>
<asp:ListItem Value="100000" resourcekey="AllPageViewSizeListItem">All</asp:ListItem>
</asp:DropDownList>
```

You can also change the number value of the list items (e.g. from 10 to 100 if you want to change the available page sizes). You will also need to change the text for the resource key pertaining to your custom display template that appears on screen from the static localization. Please see Static Localization and Language Packs (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/static-localization-and-language-packs/rvdwkpvm/section>) for more info.

## How to default to list view

By default, the product list displays products arranged in grid view format. In order to change the product list to display in list view by default, you need to:

1. Create a custom display template from the Storefront's **Configuration > Display templates** menu.
2. Select the "Product list" module control and **Add new**.
3. Give the new custom display template a name (e.g. CustomProductList)
4. Always choose the latest **Base display template** with the highest version number.
5. Look for the following line and add the **Selected="True"** attribute:  
  

```
<asp:ListItem resourcekey="ListPageViewModeListItem" Value="List" Selected="True">List</asp:ListItem>
```
6. Save the display template.
7. Under **Configuration > Product list** menu, set the **Display template** to your newly created custom display template.

When in grid view, the HTML includes the CSS class "rvdsfPageViewModeGrid" and when in List view, the CSS class is "rvdsfPageViewModeList". You can use this information to customize the CSS to format the list and grid layout nicely to the way you want.

# How to force products from a category

If you have multiple product list modules on different pages and you would like to specialize them to show products from a certain category when no category is being selected, you can do so using a custom display template. See [Display Templates \(https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/display-templates/rvdwkpvm/section\)](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/display-templates/rvdwkpvm/section) for more information.

1. Under **Configuration > Display templates** menu.
2. Click **Add New**.
3. Select "Product List" module control.
4. Give your template a name (e.g. "CustomCookware").
5. Look for the following line and enter the desired Category ID in the Value attribute.

```
<asp:HiddenField ID="OverrideCategoryIDHiddenField" runat="server" Value="12" />
```

6. Save.
7. Create your special page.
8. Add the **Product List** module to your special page.
9. Under the module's **Settings**.
10. Set it to use the custom display template you created.
11. Select the default checkbox if you like this page to act as the default product list module on your site.
12. Update.

## How to show featured products

The usual behavior of the product list is to display products primarily based on the selected category (e.g. "Cookware") and among other criteria. It's important to understand that when the customer first lands on your product list page, no category is initially being selected. You need to decide if you intend to show all your products or only the selected few products. If you have thousands of products, it is strongly recommended to show only a subset of products for performance reasons, typically your best selling featured products.

To show only the subset of products when no category is selected, you must mark your desired product's as "Featured" under the product's Category tab. So it follows that if you want to show all products when no category is selected, you will need to mark all your products as featured.

## Product Detail

The **Product Detail** module control displays the detailed information of the product to the customer. This module should be visible to all users. The module title automatically changes to take the product name.

### Canon EOS Rebel T5i



☐ Compare

#### Canon EOS Rebel T5i



Price: USD \$899.99

Points earn: 899

Quantity: \*

1

Add to cart

Buy now

Add to wish list

Update

Overview

Specifications

Reviews

Canon is proud to introduce its most sophisticated Rebel ever—the EOS Rebel T5i DSLR! Built to make advanced photography simple and fun, the new Rebel T5i delivers phenomenal image quality, high performance, and fast, intuitive operation. This EOS Rebel amps up the speed with the powerful DIGIC 5 Image Processor that helps make high-speed continuous shooting of up to 5.0 fps possible—great for capturing fast action. An 18.0 Megapixel CMOS sensor ensures that every image is shot in superb, high resolution; and an extended ISO range of 100–12800 gives photographers the opportunities to take the Rebel T5i into more shooting situations than ever before.

18 MEGA



FULL HD

ISO

When in page edit mode, you can also quickly edit your product simply by clicking on the **Edit product** link. This will direct you the product's administration page and allows you go back and review your changes easily.

### Apple iPad Air



☐ Compare

#### Apple iPad Air



Price: USD \$499.99

Points earn: 499

Color:

White

Storage:



16GB



32GB

Quantity: \*

1



Edit Product

To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Product detail** menu.



## Hosting Multiple Module Controls

The Storefront supports hosting more than one instance of this module on the Web site. This is useful to single out a special product item on a different page for a promotional campaign. In this case, you would create a custom **Product Detail** display template from the **Configuration > Display templates** menu. In the custom template, you can force it to display a specific product by setting the ASP.NET hidden **Value** property to the product's ID value.

```
<asp:HiddenField ID="OverrideProductIDHiddenField" runat="server" Value="12" />
```

Then, return to the new module instance and click on **Edit Content** from the module's action menu to change the display template.

Now you have two instances running, you need to mark the one of the two module instances as the default instance where all product list navigation will point to. You can mark as default instance from the **Edit Content** on the module action menu.



The screenshot shows a dialog box titled "Edit". Inside the dialog, there are two fields: "Display template:" with a dropdown menu, and "Default:" with a checked checkbox. At the bottom of the dialog, there are two links: "Update" and "Cancel".

# How to force product

If you like to display a single product somewhere on a special page (e.g. you have a special landing page that needs to show a single product that you sell), you can do so using a custom display template. See Display Templates (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/display-templates/rvdwkpvm/section>) for more information.

1. Under **Configuration > Display templates** menu.
2. Click **Add New**.
3. Select "Product Detail" module control.
4. Give your template a name (e.g. "AsSeenOnTV").
5. Look for the following line and enter the desired Product ID and optionally the Product Variant ID if you have more than one variant in their respective Value attribute.

```
<asp:HiddenField ID="OverrideProductIDHiddenField" runat="server" Value="9" />  
<asp:HiddenField ID="ProductVariantIDHiddenField" runat="server" Value="12" />
```

6. Save.
7. Create your special page.
8. Add the **Product Detail** module to your special page.
9. Under the module's **Settings**.
10. Set it to use the custom display template you created.
11. Select the default checkbox if you like this page to act as the default product detail module on your site.
12. Update.

# How to set number of related products

For newer Storefront v11 and above, the related products use the Product Showcase module. You can simply configure the max number of items to display under the module's settings.

For older Storefront, to change the number of related products displayed on the product detail page, you need to create a custom display template for the Product detail module control and edit the **PageSize** number in your template.

1. Create a custom display template from the Storefront's **Configuration > Display templates** menu.
2. Select the "Product detail" module control and **Add new**.
3. Give the new custom display template a name (e.g. CustomProductDetail)
4. Always choose the latest **Base display template** with the highest version number.
5. Look for the following line and change the **PageSize** attribute value to the number of products you wish to display:

```
<asp:DataPager ID="RelatedProductDataPager" runat="server"  
OnPreRender="RelatedProductDataPager_PreRender" PagedControlID="RelatedProductListView" PageSize="3">
```

6. Save the display template.
7. Under **Configuration > Product detail** menu, set the **Display template** to your newly created custom display template.

## Product Filter

The **Product Filter** module control is optionally used beside the product list module control to refine results. The filter works against product attribute definitions assigned to a product or variant. The product attribute definition (**Catalog > Attributes definitions**) must be marked as "Filterable" in order to be listed in the filter. Currently, only Boolean, Decimal, Integer and Selection attribute definition types can be filtered. See Product attributes (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/catalog-product-attributes/rvdwkpvm/section>) for more info. You can also filter against certain core product properties such as the price, manufacturer and distributor.

## Refine Results

Drought tolerant
☒ Yes

Soil conditions
☒ Adaptable
☐ Dry
☐ Humid


Product depth (cm)
 1  3

Product height (cm)
 17  45


Product weight (g)
 15  730

Product width (cm)
 26  75

Qty:



[Compare](#)



[Compare](#)


[Eco Tablet](#)

This eco-friendly low-power consumption tablet is ideal for trekking in the woods while you search for wildlife habitats. Configure your hardware options.

★★★★☆

Price: USD \$199.00

[See details](#)



[Compare](#)

[October](#)

This tree's foliage is surely to

★★★★☆

Price:

Qty:

[Add](#)


[Rethink T-Shirt](#)

Support the environment. Every dollar collected goes towards planting a tree in a devastated land. Prices vary by selected size.

★★★★★

Price: USD \$5.00

[See details](#)



[Compare](#)

[Royal En](#)

This machine maintains growing year.

★★★★☆

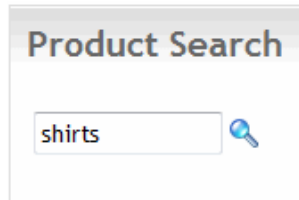
Price:

Qty:

[Add](#)

# Product Search

The **Product Search** module control is optionally used beside the product list module control to search for products only. The search works against product name, description and attribute definitions assigned to a product or variant. The product attribute definition must be marked as "Filterable" in order to be searchable. The search uses keyword indexing for faster performance and reduces the database load on your server.



It uses the powerful Lucene search that allows wildcard, fuzzy and boolean matches.

Type	Example	Notes
Fuzzy	~	Contain terms that are close to the word <i>kettle</i> , such as <i>cattle</i>
Wild	cat*	Contain terms that begin with <i>cat</i> , such as <i>category</i> and the exact term <i>cat</i> itself
Exact-Single	orange	Contain the term <i>orange</i>
Exact-Phrase	"wiki is awesome"	Contain the exact phase <i>wiki is awesome</i>
OR	orange bike	Contain the term <i>orange</i> or <i>bike</i> , or both. <b>OR, if used, must be in uppercase</b>
	orange <b>OR</b> bike	
AND	orange <b>AND</b> bike	Contain both <i>orange</i> and <i>bike</i> . <b>AND must be in uppercase</b>
Combo	(agile <b>OR</b> extreme) <b>AND</b> methodology	Contain <i>methodology</i> and must also contain <i>agile</i> and/or <i>extreme</i>

## How search works

The Storefront product search makes use of the DNN internal search indexer to improve query performance and accuracy. Therefore, when you create a new product, it doesn't get indexed immediately until your DNN search scheduler has ran. Certain systems are configured to index the content once a day. You can force the search to re-index immediately by going to the persona bar **Settings > Scheduler** page and clicking on the **Search: Site Crawler** task and clicking on the **Run Now** button or you can configure it to run more frequently.

The following requirements must be met in order to properly index your products:




1. The Product Detail module definition under **Settings > Extensions** must support the Searchable interface.
2. The Product Detail module must be publicly visible by all users.
3. The Product Detail module must have the **Allow Indexing** enabled.
4. The page hosting the Product Detail module must be publicly visible by all users.
5. The page hosting the Product Detail module must also have the **Allow Indexing** enabled.
6. The Product Detail module must have the **LastContentModifiedOnDate** greater than the last known time when the indexer ran for the Product Detail module.
7. Individual products must have an **UpdateDate** that is greater than the last known time when the indexer ran for the Product Detail module.

By default, the DNN search indexer will not index any keyword shorter than 4 characters and longer than 50 characters, and may omit certain common words and numbers. You can change this configuration under the **Settings > Site Settings** (see **Search** section).

# Product Showcase

The **Product Showcase** module control is optionally used to promote one or many featured products, newest products, random products, etc. on your pages. It can be laid out horizontally or vertically with auto scrolling or using buttons by configuring the settings under **Configuration > Product showcase** or from the **Edit Content** action menu for each module control instance.







### Product Showcase

		
<a href="#">Revindex Storefront Source Code</a>	<a href="#">Revindex Storefront Service Plan</a>	<a href="#">Revindex Storefront 4.3</a>
☆☆☆☆☆	★★★★★	★★★★★
Price: USD \$2,499.99	Price: USD \$199.99 / Year	Price: USD \$199.99
<a href="#">See details</a>	<a href="#">See details</a>	<a href="#">See details</a>

# Product Comparison

The **Product Comparison** module control allows the customer to easily pick and compare different products in a grid view. Set this module control to appear on the page for all users.

Any product attribute defined for a product that are marked comparable and published will also appear in the product comparison grid. To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Product comparison** menu. You can also limit the maximum number of items to compare at a time to better fit your template and reduce server load.

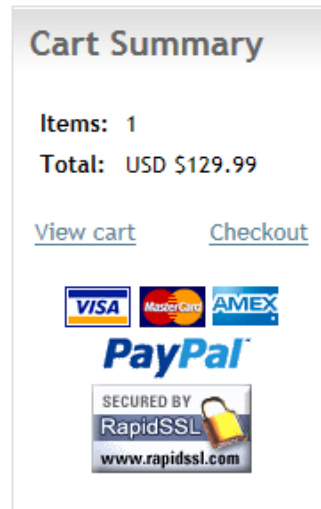
Product Comparison			
	 Remove	 Remove	 Remove
▼			
Gallery:			
Product:	<a href="#">October Glory Maple Tree - 4 feet</a>	<a href="#">Royal Empress Tree - 2 feet</a>	<a href="#">Hybrid Poplar Tree - 4 feet</a>
Overall rating:	★★★★★	☆☆☆☆☆	☆☆☆☆☆
Sale:			
Price:	USD \$59.95	USD \$29.95	USD \$59.95
MSRP:			
Save:			
Product #:			
Manufacturer:			



## Cart Summary

The **Cart Summary** module control provides a quick display of the items currently in the shopping cart. It is recommended to place this module on the header, left or right side pane on your page and set it to appear on all pages visible for all users. You may rename the module title to something friendlier like “Cart Summary”.

To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Cart summary** menu. You can change the acceptance marks the same way you modify any localization static text under the site **Admin > Languages** menu.



# How to change payment acceptance mark

The payment acceptance mark helps visually indicate to your customers the different form of payment methods that are accepted during checkout such as Amex, MasterCard or Amex. It can be changed in the same way as any static text through the site's **Admin > Languages** page. Click on edit for the site and language of your choice.

Drill down the tree node, where **<\_default>** is the standard templates or your portal number if you have created custom display templates. **<StandardX>** is which ever template version you're currently using.

## Local Resources

### DesktopModules

#### Revindex.Dnn.RevindexStorefront

#### Portals

#### <\_default>

#### Display

#### CartSummary

#### <StandardX>

#### App\_LocalResources

#### Display.ascx

Look for the resource name and change the text (or HTML) to how you want it to be shown. Save and your cart summary will start using the new localized acceptance mark.

- **PaymentAcceptanceMarkLabel.Text**

# Cart

The **Cart** module control displays products that have been added to the shopping cart. This module should reside on a SSL secure page visible to all users. To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Cart** menu.

Customers can remove or adjust the quantity of the items in the shopping cart before proceeding with the checkout.

View Basket

1. View cart | 2. Billing and shipping | 3. Review and place order | 4. Confirmation

View cart

Item	Price	Quantity			Amount
<a href="#">BBC The Planet Earth Complete Series</a>	USD \$50.00	1			USD \$50.00
<a href="#">Coffee Plant</a>	USD \$9.99	1			USD \$9.99

Sub total:

USD \$59.99

Taxes:

USD \$3.00

Total:

USD \$62.99

[Continue shopping...](#)

Proceed to checkout

If the customer is not already signed in, the customer will be presented with a login or register screen after clicking on the **Proceed to Checkout** button.

## How to increase cart session time

By default, products added to cart will stay available for the same duration as your session is active. You must first enable the **Cart** feature under **Configuration > General**. Once enabled, you can configure a longer duration simply change the session timeout value in seconds under **Configuration > Cart** menu. This is a sliding expiry, which means as long as the customer continues to interact with the shopping cart, it will extend the session for another amount of period.

# How to cleanup on logout

By default, Revindex Storefront will automatically clear the cart when a registered user logs out from your site. This security measure prevents other users sharing the same computer from viewing the cart items of another user.

If you want to perform additional clean up tasks after a user logs out, you can do so using a special page that will be redirected after logout by following the steps below:

1. Give your page a name e.g. "Logout".
2. Uncheck the **Include in Menu** checkbox.
3. Set the page permission to allow only "Unauthenticated Users".
4. Click **Update** to save.
5. On the newly created page, add the Razor Host module to the page.
6. On the action menu, click **Edit script**.
7. Click **Add new script file**.
8. Choose "CSHTML (C#)" file type.
9. Give it a file name (e.g. "Logout.cshtml")
10. Click **Add new script**.
11. Select the script you created. It may have an underscore prefix to the name.
12. Replace the Script Source with this code:

```
@{
    // Perform your steps here such as expiring cookie, closing session, clear cache, etc.
    Session.Abandon();
    Response.Cookies.Add(new HttpCookie("ASP.NET_SessionId", ""));
    Response.Cookies.Add(new HttpCookie("rvdsfcart|0", "") { Expires = DateTime.Now.AddDays(-1d) });

    // Uncomment the line below if you want to redirect to your home page.
    // Warning: Once you uncomment it, you won't be able to access this page
    // anymore since it will redirect immediately.
    // You will have to go to your local folder to edit this script
    // under DesktopModules\RazorModules\RazorHost\Scripts\<file>.cshtml.
    // Response.Redirect("~/", false);
}
```

13. Check on the **Is Active** checkbox.

14. Click **Save Script and Return**.
15. Go to your **Admin > Site Settings** page.
16. Under the User Accounts Settings tab, change the **Redirect After Logout** dropdown to your newly created page.
17. Click **Update**.

# Checkout

The **Checkout** module control performs the checkout process. This module should reside on a SSL secured page visible to all users. To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Checkout** menu.

The checkout process is a step wizard. The first step is collecting customer billing and shipping information. The customer can select an existing address from his address book for quick fill. At this time, the customer can also apply coupons if applicable.

You can add dynamic fields to collect additional information by providing your HTML/ASP.NET code using the **Dynamic form** from the **Configuration > Checkout** menu.

### Checkout

[1. View cart](#) | [2. Billing and shipping](#) | [3. Review and place order](#) | [4. Confirmation](#)

#### Billing information

First name:

Last name:

Company:

Country:

Street:




City:

State/Province:


Postal code:

Phone:

Email:

Payment method: ☒    ☐ Wire transfer

Credit Card #:

Expiration:   Security #: 

#### Shipping information

☒ Same as billing address

Shipping method:

#### Other information

Coupon:  [Add](#)

[Back](#) [Review order](#)

The 2<sup>nd</sup> step allows the customer to review the total charge before placing the order or go back to the previous screen to correct information.

### Checkout

[1. View cart](#) | [2. Billing and shipping](#) | 3. Review and place order | 4. Confirmation

#### Review and place order

Item	Price	Quantity	Amount
<a href="#">BBC The Planet Earth Complete Series</a>	USD \$50.00	1	USD \$50.00
<a href="#">Coffee Plant</a>	USD \$9.99	1	USD \$9.99

Discount: USD \$0.00

Sub total: USD \$59.99


Shipping: USD \$10.00


Handling: USD \$0.00

Taxes: USD \$3.00

Total: USD \$72.99

Total savings: USD (\$3.00)

 Back

 Place order now

If the order processed successfully, the customer will be redirected to the confirmation page, otherwise an error message will be presented to the customer allowing him to make adjustments and retry.



# Anonymous Checkout

You must first enable the **Checkout** feature under **Configuration > General** to access this functionality. You can enable anonymous checkout mode to speed up the checkout process for customers by selecting the **Enable anonymous checkout** option from the **Configuration > Checkout** menu. The Storefront will automatically create a new guest account for the anonymous shopper upon placing order bypassing the standard login and registration forms in a normal checkout process. In anonymous mode, the customer will not be able to login to their newly created account unless you explicitly provide the login and password to the customer.

It's important to understand the Storefront creates a new account with the customer's email address captured during checkout. By default, your site allows multiple accounts with the same email address. If, however, you have explicitly enabled the **Requires unique email address** under **Admin > Site Settings** page, the Storefront will not be able to create the guest account if the email has already been used before. In such cases, you must also enable the **Reuse anonymous account** under the **Configuration > Checkout** settings.

# Multiple step or single page checkout

Depending on your type of business clientele, you can choose to optimize your checkout flow to use the multiple step or single page checkout mode. The single page checkout will present a shorter number of steps toward checkout completion by displaying all form elements at once. The customer sees the entire flow upfront and needs only click a single button to complete checkout in a hurry.

Checkout

Billing information

Use address book:

First name: \* 

John

Last name: \* 

Doe

Company:

Country: \* 

United States

Street: \* 

1 melrose place

City: \* 

Beverly hills

State/Province: 

California

Postal code: \* 

90211

Phone: \* 

111-111-1111

Email: \*

Business tax no.:

Save to my address book: ☒

Update my profile: ☒

Shipping information

Same as billing address: ☒

Shipping method: \* 

Air USD \$10.00

Other information

Coupon:

Payment

Order method: 

☒ Regular purchase ☐ Purchase order

PQ number:

Points available: 9930

Redeem points:

Gift voucher:

Payment method: 

☒ None ☐ Cash

Review order

Item

Green Mountain Coffee

Qty

Amount

1

USD \$9.00

Discount:

USD \$0.00

Sub total:

USD \$9.00

Shipping:

USD \$10.00

Handling:

USD \$10.00

Taxes:

USD \$2.10

Total:

USD \$31.10

Paid:

USD \$0.00

Balance due:

USD \$31.10

Total savings:

USD (\$1.00)

Points earn:

9

Edit cart

Place order now

In contrast, the multiple step checkout will gradually present related form elements a page at a time slowly leading the customer to the last payment step. The customer feels relief taking his time to enter every information meticulously and feels the information entered is validated along the way.

Checkout

1. View cart > 2. Billing and shipping > 3. Review and place order > 4. Confirmation

Billing information

Use address book:

First name: \*

John

Last name: \*

Doe

Company:

Country: \*

United States

Street: \*

1 melrose place

City: \*

Beverly hills

State/Province:

California

Postal code: \*

90211

Phone: \*

111-111-1111

Email: \*

Business tax no.:

Save to my address book: ☒

Update my profile: ☒

Shipping information

Same as billing address: ☒

Shipping method: \*

Air USD \$10.00

Other information

Coupon:


Back

Review order

Checkout

1. View cart
2. Billing and shipping
3. Review and place order
4. Confirmation

Review order

Item	Price	Qty	Amount
 Green Mountain Coffee	USD \$9.00	1	USD \$9.00

Discount: USD \$0.00  
Sub total: USD \$9.00  
Shipping: USD \$10.00  
Handling: USD \$10.00  
Taxes: USD \$2.10  
**Total: USD \$31.10**  
Paid: USD \$0.00  
Balance due: USD \$31.10  
**Total savings: USD (\$1.00)**  
Points earn: 9

Payment

Order method:
☒ Regular purchase
☐ Purchase order

PO number:

Points available: 9998  
Redeem points:
☒

Gift voucher:
☒

Payment method:
☒ None
☐ Cash

Back
Place order now

Single page checkout is usually recommended for businesses whose customers are tech savvy and generally purchase a few quick items. However, if your customers require more hand guiding, your checkout form has a lot of custom fields or you perform a lot of upselling of complex products, you will likely benefit from multiple step checkout.

Choosing the right approach can help increase your conversion rate. Do not simply assume a shorter form or quicker checkout will necessarily mean higher conversion rate. Many studies (<http://www.proimpact7.com/ecommerce-blog/one-page-checkout-5-reasons-why-not/>) have shown conflicting results where single page checkout can increase or even decrease conversion rate. For example, Amazon.com uses the multiple step approach whereas Gap.com chooses to use the single page checkout based on their own internal measurement. With Revindex Storefront, you can perform your own internal test to see which approach works best for your type of business.

You must first enable the **Checkout** feature under **Configuration > General** to access this functionality. Once enabled, you can configure your Storefront to show a multiple step or single page checkout mode under the **Configuration > Checkout** menu.

# Checkout Availability

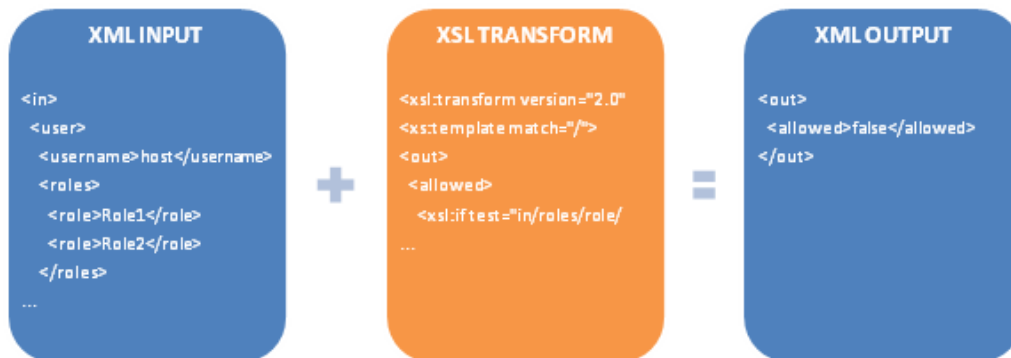
You must first enable the **Checkout** feature under **Configuration > General** to access this functionality. The checkout availability rule determines if checkout is permitted based on conditions such as region, amount, quantity, etc.

The screenshot shows a web application interface for configuring checkout availability. At the top, there is a navigation bar with links to Dashboard, Catalog, Sales, Marketing, and Configuration. Below this, there are tabs for General, Availability, Custom field, and Action. The 'Availability' tab is selected. The configuration form includes the following fields and options:

- Availability rule:** A dropdown menu set to 'Basic'.
- Min total amount:** A text input field with the value '0.0000'.
- Min total quantity:** A text input field with the value '0.0000'.
- Max total quantity:** A text input field.
- Min total weight (g):** A text input field with the value '0.0000'.
- Max total weight (g):** A text input field.
- Region match:** Two radio buttons: 'Allow all except listed below' (selected) and 'Allow only those listed below'.
- Regions:** A text input field with a plus icon and the text 'Add new'.

A 'Save' button is located in the top right corner of the configuration area.

The checkout availability rule can also use XSL transform to determine whether the checkout should be allowed for complex scenarios. The expected output should return "true" to indicate the checkout is allowed to proceed under the input conditions, otherwise "false" if disallowed. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.

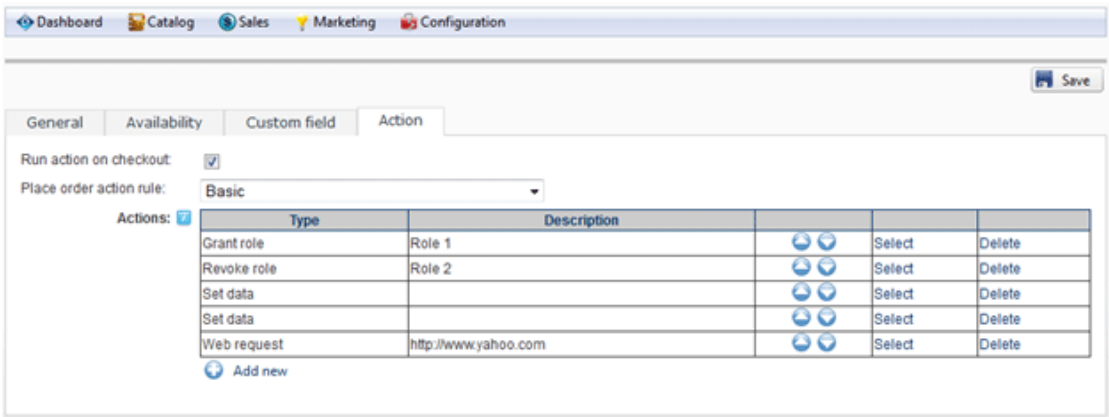


# Actions

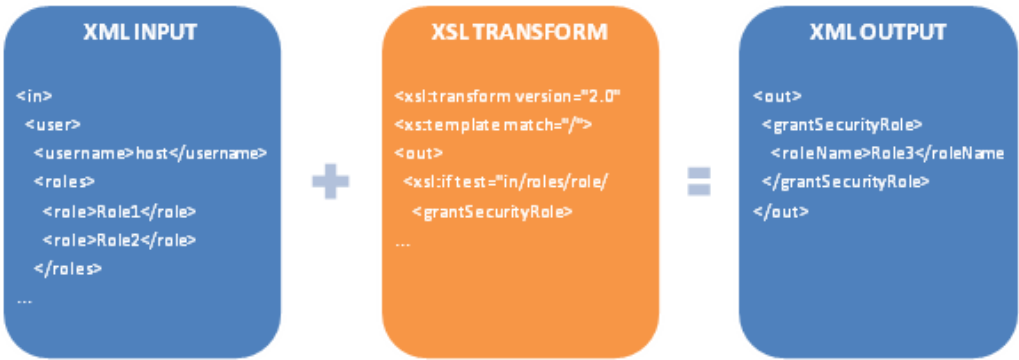
You can automatically grant or revoke security roles to customer on checkout, send email, increment/decrement inventory, update data or make a Web request to an external service. This feature is useful if you need to allow access to certain pages on your Web site after the customer paid or you have custom logic that needs to run.

You must first enable the **Checkout** feature under **Configuration > General**. Once enabled, you can configure your action rules under **Configuration > Checkout** menu.

You can only grant security roles that are allowed under the **Configuration > Security** menu settings. This security feature prevents staff operators from creating product action rules to grant themselves higher level roles (e.g. "Administrators" role).



The **Place order action rule** can also use XSL transform to determine what complex action rules to run. The Storefront comes with several pre-defined rules that you can simply modify the values without needing to know XSL. To learn more about XSL, please see the **XSL Transform** section.



## How to assign security role on checkout

To assign one or more security roles (e.g. "Role1") during checkout, you must first authorize the role under the **Configuration > Security** menu. You can allow a single role or all the roles belonging to a Role Group. Role Groups in DotNetNuke are simply logical grouping and can be configured under **Admin > Security Roles** page. This security feature prevents employees from creating product action rules to grant themselves higher level roles (e.g. "Administrators" role).

You must first enable the **Checkout** feature under **Configuration > General** to enable this functionality. To assign the role for every checkout, you need to create an action rule under **Configuration > Checkout** menu. Under the Action tab, make sure the **Run action on checkout** checkbox is selected. For the **Place order action rule**, select Basic. Click on **Add new** and select **Grant role** and choose the role to assign. Click **OK** and the **Save**. You can assign multiple roles by repeating the Add new action step.

To assign the role only when a specific product is purchased during checkout, you need to create an action rule under **Catalog > Products** menu for the desired Product variant. Under the Action tab, for the **Place order action rule**, select Basic. Click on **Add new** and select **Grant role** and choose the role to assign. Click **OK** and the **Save**. You can assign multiple roles by repeating the Add new action step.

# How to change payment acceptance mark

The payment acceptance mark helps visually indicate to your customers the different form of payment methods that are accepted during checkout such as Amex, MasterCard or Amex. It can be changed in the same way as any static text through the site's **Admin > Languages** page. Click on edit for the site and language of your choice.

Drill down the tree node, where **<\_default>** is the standard templates or your portal number if you have created custom display templates. **<StandardX>** is which ever template version you're currently using.

## Local Resources

### DesktopModules

#### Revindex.Dnn.RevindexStorefront

#### Portals

#### <\_default>

#### Display

#### Checkout

#### <StandardX>

#### App\_LocalResources

#### Display.ascx

Look for the resource names and change the text (or HTML) to how you want it to be shown. Save and your checkout will start using the new localized acceptance mark.

- **CashPaymentMethodListItem.Text**
- **CheckPaymentMethodListItem.Text**
- **CreditCardPaymentMethodListItem.Text**
- **MoneyOrderPaymentMethodListItem.Text**
- **PayFastPaymentMethodListItem.Text**
- **PayPalPaymentMethodListItem.Text**
- **WireTransferPaymentMethodListItem.Text**



## How to hide unwanted country

If there are countries your business doesn't sell to, you can easily disable the unwanted countries under **Configuration > General** settings.

For older Storefront prior to v9.0, you can use Javascript to hide the available countries from the dropdown list. Simply, create a custom display template for the Checkout module control.

For example, you can put this Javascript right below your ASP panel tag to remove all countries except U.S and Canada:

```
1 <asp:Panel ID="BillingAndShippingPanel" runat="server">
2 <script type="text/javascript">
3 function pageLoad(sender, args)
4 {
5     jQuery("select[id$='BillingCountryDropDownList'] option[value!='US']option[value!='CA']").remove();
6     jQuery("select[id$='ShippingCountryDropDownList'] option[value!='US']option[value!='CA']").remove();
7 }
8 </script>
```

Make sure there is a space between the **select[xxx] option[aaa]option[bbb]** and no space between the **option[aaa]option[bbb]**. The correct spacing is important here.

## How to set default country

Revindex Storefront will default to the user profile's country if available. Starting with Storefront 9.0 and above, you can easily configure the default country under **Configuration > General settings**. If no default country is set, it will use the default country set under the DNN Profile properties. It will also default to the state/region if the user has state/region saved in his DNN profile. Otherwise, the state/region is listed alphabetically.

For older Storefront, you can follow the steps below to configure the default DNN profile country.

For DNN 7.3 and below, to set the default country, go to your **Admin > User Accounts** page and click on **Manage Profile Properties** and select **Country**. For example, set the **Default Value** = "US" for United States without the quotes.

For DNN 7.4 and higher, to set the default country, you must first obtain the EntryID number from the database by performing a SQL query. You can issue the query from the **Host > SQL** page as superuser.

```
SELECT EntryID, [Text] FROM Lists WHERE ListName = 'Country' ORDER BY [Text]
```

Take note of the EntryID number for your desired country. Go to your **Admin > Site Settings** page and look under **Profile Settings** and select **Country**. For example, set the **Default Value** to "221" for United States without the quotes.



## How to include registration form in checkout

When anonymous checkout is enabled, by default, the Storefront shows a "Create new account" and "Login to existing account" link on the checkout page. If the user clicks on the "Create new account" link, he will be redirected to the default site registration page. DNN allows you to customize the registration form and you can even install a 3rd party registration module.

### Checkout

Account information	Review order
Checkout as a guest or create an account to view your order history and status.	
<div>Create new accountLogin to existing account</div>	
Billing information	
First name: *	John
Last name: *	Doe
Company:	
Country: *	United States

Test Me:



Item
 Basic Ship
 Donation - CustomAmor CustomDrop

If you prefer to include a simplified registration form directly on the same checkout page, you can do so using a custom display template for the Checkout module. Please see Display Templates (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/display-templates/rvdwkpvm/section>) for more information. Make sure you enable server-side code edit under **Configuration > Security** settings first.

### Checkout

Account information	Review order
Checkout as a guest or create an account to view your order history and status.	
<div>Email: Password:</div>	
<div>RegisterLogin to existing account</div>	
Billing information	
First name: *	John
Last name: *	Doe

Test Me:

Item
 Basic Ship
 Donation - CustomAmor CustomDrop

Near the top of the code, you want to hide the existing buttons so a simple way is to add a **style="display:none"** attribute.

```
1 <div class="rvdsfCheckoutAccountActions" style="display:none">
2   <asp:HyperLink ID="AccountRegistrationHyperLink" runat="server" resourcekey="AccountRegistrationHyperLink"
3   CssClass="dnnPrimaryAction rvdRegisterAction" />
4   <asp:HyperLink ID="AccountLoginHyperLink" runat="server" resourcekey="AccountLoginHyperLink"
5   CssClass="dnnPrimaryAction rvdLoginAction" />
6 </div>
```

Then you want to paste the following code right underneath it. This will add the email and password textboxes as well as a new "Register" button with some C# code to create and login the user.

```
1 <div class="dnnForm">
2   <fieldset>
3     <div class="dnnFormItem">
4       <dnn1:LabelControl ID="EmailLabelControl" runat="server" Text="Email:" />
5       <asp:RequiredFieldValidator runat="server" ControlToValidate="EmailTextBox" Display="Dynamic"
6       CssClass="dnnFormMessage dnnFormError" Text="Email is required." ValidationGroup="Registration">
7     </asp:RequiredFieldValidator>
8     <asp:TextBox ID="EmailTextBox" runat="server" ValidationGroup="Registration" />
9   </div>
10   <div class="dnnFormItem">
11     <dnn1:LabelControl ID="PasswordLabelControl" runat="server" Text="Password:" />
12     <asp:RequiredFieldValidator runat="server" ControlToValidate="PasswordTextBox" Display="Dynamic"
13     CssClass="dnnFormMessage dnnFormError" Text="Password is required." ValidationGroup="Registration">
14   </asp:RequiredFieldValidator>
15   <asp:TextBox ID="PasswordTextBox" runat="server" ValidationGroup="Registration" TextMode="Password" />
16 </div>
17 <ul class="dnnActions">
18 <li><asp:LinkButton ID="RegisterLinkButton" Text="Register" runat="server" OnClick="RegisterLinkButton_Click"
19 ValidationGroup="Registration" CssClass="dnnPrimaryAction" /></li>
20 </ul>
21 <script runat="server">
22   protected void RegisterLinkButton_Click(object sender, EventArgs e)
23   {
24     var newUser = new DotNetNuke.Entities.Users.UserInfo();
25     newUser.Profile.InitialiseProfile(this.PortalId);
26     newUser.PortalID = this.PortalId;
27     newUser.Email = EmailTextBox.Text;
28     newUser.Username = EmailTextBox.Text;
29     newUser.IsSuperUser = false;
30     newUser.Membership.Approved = true;
31     newUser.Membership.CreatedDate = DateTime.Now;
32     newUser.Membership.Password = PasswordTextBox.Text;
33     newUser.Membership.UpdatePassword = false;
34
35     var status = DotNetNuke.Entities.Users.UserController.CreateUser(ref newUser);
36
37     if (status != DotNetNuke.Security.Membership.UserCreateStatus.Success)
38       MessagePlaceholder.Controls.Add(DotNetNuke.UI.Skins.Skin.GetModuleMessageControl(null, "Sorry, we cannot
39 create this user. Please make sure your email is unique and your password is at least 6 characters long.",
40 DotNetNuke.UI.Skins.Controls.ModuleMessage.ModuleMessageType.RedError));
41   else
42   {
43     var x = DotNetNuke.Entities.Users.UserController.ValidateUser(newUser, this.PortalId, true);
44     DotNetNuke.Entities.Users.UserController.UserLogin(this.PortalId, newUser,
45 this.PortalSettings.PortalName, Request.UserHostAddress, true);
46     Response.Redirect(Request.RawUrl, false);
47   }
48 }
49 </script>
50 </fieldset>
51 </div>
```

Once the form is working, you can move the "Login to existing account" button so it shows up next to your new "Register" button. This is only an example. You are certainly welcome to add more fields to capture more information or change how it works. Make sure you test and handle any potential human errors like invalid email, etc. The minimal information normally needed to create a new user account is the email address (the password can be set by you or provided by the customer).

# How to create a single login & register page

To create a combined Login and Register page, simply follow these steps below. The following procedure may or may not work depending on your version of DotNetNuke.

1. Login as Host and go to **Admin > Site Settings** and then under Advanced Settings followed by Host Settings, include the "Users and Roles" and "Account Login" modules. These modules will now be available to be added to a page just like other modules.
2. Create a new page called "Login" and hide it from the menu. Make the page viewable by Administrators (default) and Unauthenticated Users.
3. Add the "Account Login" module and the "Users and Roles" module to the page. The DNN Users and Roles module comes with a bunch of module controls and you can remove the ones you don't need and keep only the one that looks like a registration form. Arrange them so they look nice.
4. Go to **Admin > Site Settings** and then under Advanced Settings and Page Management and set the Login selection to your newly created login page.

# How numbers are calculated and rounded

Internally, the Storefront uses 4 decimal precision places to store and calculate numeric values. Using 4 decimal places allows greater precision to handle extremely price sensitive commodities such as jewelry, industrial chemicals, pharmaceutical drugs, manufacturing goods, etc. where amounts may need to be multiplied by fractional unit cost (e.g. \$1.0381 per gram).

In addition, the higher level of precision allows for more accurate calculation of the total amount than typical 2 decimal places calculations. Suppose your business sells ceramic tiles at \$10.00 each and you're giving a  $\frac{1}{3}$  discount for each item ordered in your store. The Storefront will calculate a fractional discount of \$3.3333 per unit. If the customer orders 100 ceramic tiles, it will yield a total discount of \$333.33. If the system had used a 2 decimal place precision, it would have calculated a less accurate total discount of \$333 and the customer is overcharged by \$0.33.

Even though using 4 decimal places internally is important for accurate calculation, it is customary for businesses to round the final amount to display 2 decimal places to accommodate the country's monetary system. Internally the values are always calculated with 4 decimal places without rounding, but the values shown on screen are rounded to 2 decimal places by the Storefront before being displayed. So even if you sell a product that has a fractional amount and the customer places 1000 items in the cart, the total sum will always be highly accurate. In contrast, where it would be wrong is if the Storefront had rounded it early during the discount calculation and later perform the sum of the total amount towards the end of the mathematical flow, the sway would be amplified by the number of items in the cart.

The rounding strategy follows your system's rounding algorithm and commonly follows the "Banker's rounding" algorithm:

- any fractional number less than 5 will round down to the previous nearest number
- any fractional number greater than 5 will round up to the next nearest number
- the fractional 5 itself will round up or down to the nearest even number (e.g. 1.745 will round down to 1.74 whereas 1.755 will round up to 1.76).

The Banker's rounding algorithm is considered more accurate and fair because it doesn't favor any side, and is preferred by bankers and accountants. In particular, the fractional 5 is evenly rounded up or down by perfectly half case.

## How to require terms & agreement

If you want your customers to agree to your terms and conditions before they complete checkout, you can easily add a checkbox to your checkout page by following the steps below:

1. You must first enable the **Checkout** feature under **Configuration > General**.
2. From your Storefront admin's **Configuration > Checkout** menu, select the Custom field tab.
3. Choose "Basic" for the dynamic form dropdown.
4. Click **Add new**.
5. In the Field type, select "CheckBox".
6. Give the ID a name like "AgreementCheckBox" without spaces.
7. Give the Label a title like "I agree to the terms and conditions:".
8. Check the Required checkbox.
9. In the Validator text, enter an error text like "You must agree to proceed."
10. Click **OK**.
11. Click **Save**.

If you want complete customization over the look and feel of the checkbox and text, you can use the "Custom code" instead of the "Basic". From there, you can select the "Require agreement" template under the **New from Template** menu. This will allow you to edit the full ASP.NET/HTML of how you would like it to appear.

# Confirmation

The **Confirmation** module control displays the confirmation after a successful checkout. This module should reside on a SSL secured page visible to all users. To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Confirmation** menu.

Confirmation

1. View cart | 2. Billing and shipping | 3. Review and place order | 4. Confirmation

Order confirmation

Thank you. Your order is confirmed. Please print this page for your records.

Order number: 5

Order date: 2012-05-25 04:02:04

Billing information:

Shipping information:

Bob Shopper  
1 Melrose  
Beverley Hills, California  
90210 United States  
111-111-1111  
bobshopper@example.com

Bob Shopper  
1 Melrose  
Beverley Hills, California  
90210 United States  
111-111-1111  
bobshopper@example.com

Item	Price	Quantity	Amount
BBC The Planet Earth Complete Series	USD \$50.00	1	USD \$50.00
Coffee Plant	USD \$9.99	1	USD \$9.99

Discount: USD \$0.00

Sub total: USD \$59.99

Shipping: USD \$10.00

Handling: USD \$0.00

Taxes: USD \$3.00

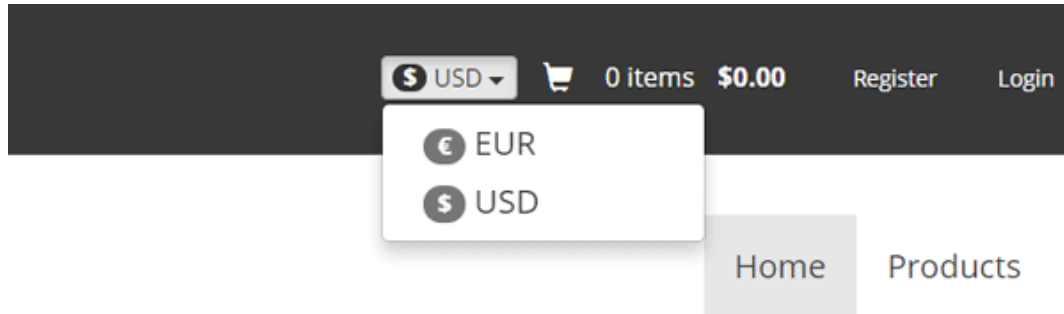
Total: USD \$72.99

Total savings: USD (\$3.00)



## Currency

The **Currency** module control allows the customer to quickly switch their preferred currency view (e.g. EURO instead of USD). To change the look-and-feel using a custom display template, set the **Display template** value from the **Configuration > Currencies** menu.



about 435 minutes. Password access is on the [Login](#) page.

## evindex Demo

and learn. Take care of our environment so everyone can enjoy. 1  
and will automatically adjust to your device

# Quick Order

The **Quick Order** module allows customers to quickly order multiple products by name or SKU. If you sell many products and you have repeat customers that places large orders (e.g. a wholesaler that sells automobile parts or hardware tools) will benefit from being able to place the order for many products in bulk. You can search for products by name or SKU and quickly edit an order to checkout.

Quick Order Entry

Product name or SKU: 

October Glory Maple

Variant: 

4 feet



Quantity: 

1

Price: USD \$59.95

Add to cart

See details

Item	SKU	Price	Quantity	Amount
		USD \$59.95	<div>50</div>	<div></div> <div></div> USD \$59.95
<a href="#">Hybrid Poplar Tree - 4 feet</a>				
		USD \$59.95	<div>1</div>	<div></div> <div></div> USD \$59.95
<a href="#">October Glory Maple Tree - 4 feet</a>				

Sub total:

USD \$119.90

Taxes:

USD \$0.00

Total:

USD \$119.90

Checkout

# Wish List

A wish list allows customers to bookmark products that they are interested to buy in a future time. For example, customers can create a "Christmas" wish list to keep track of products that they would consider buying at the year end.

A gift registry is simply a more advanced form of wish list and allows you to input an event date, location, etc. For example, a wedding registry would usually include the names of the bride and groom, wedding date and location. For the purpose of this documentation, we shall simply refer to both of them simply as "wish list".

The **Wish List** module control allows customers to search other people's public wish list. This module control is usually placed on a page for all users to view.

For example, a customer may search for the baby registry to purchase the gifts for his friend. During checkout, the page will automatically be populated with the correct shipping address and the purchase will be associated to the wish list.

Please see Manage Wish List (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/manage-wish-list/rvdwkpvm/section>) for more information on managing a wish list.

REVINDEXSTOREFRONTWISHLIST



Baby William

Thank you for your generosity and being apart of our new life in welcoming baby William!

Registrant: John Doe

Event date: 2013-02-04

Event location: United States, Hawaii, Honolulu

Product	Desired	Ordered
<div><div></div><div><div>Summary2...</div><div><div>★★★★★</div><div><div>Price: USD \$3.95 (\$4.35 tax incl)</div><div>MSRP: USD \$15.90 (\$17.49 tax incl)</div><div>Save: USD \$13.15 (76%)</div></div></div></div></div> <td>2</td> <td>0</td>	2	0
<div><div></div><div><div>Donation</div><div><div>★★★★★</div><div>Price: USD \$10.00 (\$10.00 tax incl)</div></div></div></div>	3	0

# Manage Address

The **Manage Address** module control allows customers to save their frequently used addresses for quick fill in other forms. This module should reside on a SSL secured page visible to registered users only (e.g. typically under some “My Account” page).

### My Green Addresses

Name	Address	Phone	Primary billing	Primary shipping		
Bob Shopper	1 Melrose Beverley Hills, California 90210 United States	111-111-1111	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<a href="#">Select</a>	<a href="#">Delete</a>

[Add new](#)

---

Preferred address: ☒ Primary billing ☒ Primary shipping

First name:

Last name:

Company:

Country:

Street:


City:

State/Province:

Postal Code:

Phone:


Email:

 [Save address](#)

## Manage Product Download

The **Manage Product Download** module control allows customers to download virtual products they purchased (e.g. software, e-book, music, etc.). This module should reside on a SSL secured page visible to registered users only (e.g. typically under some "My Account" page).

As a security measure, the download link for a product will only appear once the order has been marked as "Paid" or "Completed".



The screenshot shows a web interface for managing product downloads. At the top, there is a header bar with the text "RevindexStorefrontManageProductDownload" and a minus sign icon. Below the header is a table with two columns: "Name" and "Download". The table contains two rows of data. The first row shows "Product1 - Default" in the "Name" column and a blue "Download" link in the "Download" column. The second row shows "Product2 - Default" in the "Name" column and a blue "Download" link in the "Download" column. At the bottom right of the table, there are two small icons: a printer icon and a pencil icon.

Name	
Product1 - Default	<a href="#">Download</a>
Product2 - Default	<a href="#">Download</a>

Please see Downloadable Products (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/downloadable-products/rvdwkpvm/section>) for more information.

# Manage Order

The **Manage Order** module control allows customers to view orders they placed and the status of the order. This module should reside on a SSL secured page visible to registered users only (e.g. typically under some “My Account” page).

REVINDEXSTOREFRONTMANAGEORDER

Visible By Administrators Only

Order number:  Search

Date	Order number	Status	Amount	
2012-05-11	19000914	Completed	USD \$23.29	Select
2012-05-09	19000913	Completed	USD \$23.29	Select
2012-04-13	19000912	Pending	USD \$23.00	Select
2012-04-13	19000911	Pending	USD \$23.00	Select
2012-04-12	19000910	Pending	USD \$55.00	Select
2012-04-12	19000909	Pending	USD \$23.00	Select
2012-03-29	19000908	Ordered	USD \$57.00	Select
2012-03-28	19000907	Pending	USD \$42.00	Select
2012-03-28	19000906	Pending	USD \$42.00	Select
2012-03-28	19000905	Pending	USD \$36.00	Select

1 2 3 4 5 6 7 8 9 10 ...

General

Order details

Billing

Shipping

Payments

Order number:

19000914

Order GUID:

43164a35-cfee-446e-a30e-7b7022935084

Date:

2012-05-11 00:14:48

Status:

Completed

PQ number:

Sub total:

USD \$10.00

Shipping amount:

USD \$11.94

Taxes:

USD \$1.35

Total amount:

USD \$23.29

Order fields:

CustomDate: 05/24/2012

Notes:

Email receipt

# Manage Payment

The **Manage Payment** module control allows customers to manage their billing information needed for recurring orders. This module should reside on a SSL secured page visible to registered users only (e.g. typically under some “My Account” page).

▼ RevindexStorefrontManagePayment

Payment Method	CreditCard	
PayPal		Select
PayPal		Select
PayPal		Select
PayPal		Select
CreditCard	****1111	Select
CreditCard	****3457	Select
CreditCard	****3456	Select
CreditCard	****3455	Select
CreditCard	****9999	Select
CreditCard	****4567	Select

1 2 3 4

Add New...

Payment Method:

Credit Card ▼

Credit Card Number:

1234567890123457

Expiry:

01 ▼ 2010

Verification No.:

# Manage Recurring Order

The **Manage Recurring Order** module control allows customers to manage recurring orders they placed. This module should reside on a SSL secured page visible to registered users only (e.g. typically under some “My Account” page).

**REVINDEXSTOREFRONTMANAGERECURRINGORDER**

Visible By Administrators Only

Next recurring date	Status	Product	Quantity	Payment	
2013-03-07	Cancelled	Product9	1	Cash	Select
2013-03-07	Cancelled	Product9	1	Cash	Select
2013-03-07	Hold	Product9	1	Cash	Select
2012-03-30	Cancelled	Product1 - Default	1	None	Select
2012-03-30	Cancelled	Product2 - First	1	None	Select
2012-03-30	Cancelled	Product1 - Default	1	None	Select
2012-03-30	Cancelled	Product2 - First	1	None	Select
2012-01-27	Cancelled	Product1 - Default	2	Cash	Select
2012-01-27	Cancelled	Product1 - Default	2	Cash	Select
2011-06-25	Cancelled	Product1 - Default	2	Cash	Select

1 2 3

GeneralShippingPayment

Status:

Cancelled

Next recurring date:

2013-03-07

Create date:

2011-03-07 22:47:38

Original order number:

19000766

Product:

Product9

Quantity:

1

Save recurring order

Please see Subscription Products (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/subscription-products/rvdwkpvm/section>) for more information.



## Manage Rewards Points

The **Manage Rewards Point** module control allows customers to view their current rewards points balance. This module should reside on a SSL secured page visible to registered users only (e.g. typically under some “My Account” page).

### My Rewards Points

Status	Points	Points pending	Expire
Active	1093	0	

Please see Rewards points (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/rewards-points/rvdwkpvm/section>) for more information.

## Manage Rights

The **Manage Right** module control allows customers to view the access rights codes associated with their purchased products (e.g. software, e-book, music, etc.). This module should reside on a SSL secured page visible to registered users only (e.g. typically under some “My Account” page).

As a security measure, the access rights are only issued once the order has been marked as “Paid” or “Completed”.

### My Rights

Name	Code
Xbox Game License Key	6347384D-25C2-4356-930C-DB974C9F8F6B

Please see Rights (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/catalog-rights/rvdwkpvm/section>) for more information.

## Manage Vouchers

The **Manage Voucher** module control allows customers to view their voucher codes and the remaining balance. This module should reside on a SSL secured page visible to registered users only (e.g. typically under some “My Account” page).

As a security measure, the vouchers are only issued once the order has been marked as “Paid” or “Completed”.

### My Vouchers

Name	Code	Status	Amount	Valid from	Expire
Demox Gift Card	E2LQX7BI57VEJFNM	Active	USD \$25.00		

Please see Vouchers (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/catalog-vouchers/rvdwkpvm/section>) for more information.

# Manage Wish List

The **Manage Wish List** module control allows customers to view and manage products added to their wish list or gift registry.

A wish list allows customers to bookmark products that they are interested to buy in a future time. For example, customers can create a "Christmas" wish list to keep track of products that they would consider buying at the year end. A gift registry is simply a more advanced form of wish list and allows you to input an event date, location, etc. For example, a wedding registry would usually include the names of the bride and groom, wedding date and location. For the purpose of this documentation, we shall simply refer to both of them simply as "wish list".

You can create as many wish lists you like. A wish list can optionally be published for other users to see. This allows friends and family to search your wish list to purchase the gifts on your behalf (e.g. purchase a gift for your birthday or your upcoming wedding). Please see Wish List (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/wish-list/rvdkwpvm/section>) for more information. You can also email a special link to your selected friends and family that will bring them directly to your wish list without sharing it with everyone.

### My Green Wish List

Name	Event date	Type	Published		
Xmas		Other	<input checked="" type="checkbox"/>	<a href="#">Select</a>	<a href="#">Delete</a>

Add new

General

Products

WishList ID: 2

Name:

Type: ☐ Baby ☐ Birthday ☒ Other ☐ Wedding

Registrant first name:

Registrant last name:

Co-registrant first name:

Co-registrant last name:

Personal message:

Published: ☒

Share link: <http://demo.revindex.com/WishList/tabid/96/rvdsfwleuid/1302983543444afdbbdaef7fd61038ff/Default.aspx>

Event

Event date:

Event country:

Event state/province:

Event city:

Shipping

Use address book:



## Multi-seller marketplace

Reindex Storefront can help your business earn more money with little effort. You can turn your amazing store into a full-fledge marketplace that consists of your own products you already sell and new products from 3rd party sellers. For example, you can sell products that will drop ship directly from other vendors. There are literally hundreds of thousands of products from thousands of drop shippers ready to post their products on your site for sale.

Customers are happy to shop at your site with your newly extended catalog and will be able to purchase any combination of your products in a single checkout. Your shop will process the payment and you will in turn distribute the money to your sellers after deducting any commission you take.

Your sellers are happy to have sold their products quickly through your site. They will have access to self-manage their own warehouses, products, inventory and prices on your site so you don't have to do the grunt work. They will receive the same email confirmations as you do when a checkout completes and can view the order information through the same familiar Storefront interface that you use except they can only view information pertinent to them and not information from other sellers or from your side of business. Just as you would optimize your business operations, your sellers can define their own packing, shipping, handling and fulfillment methods to optimize their micro-business operation within your store. They will also be able to define their own tax methods so that their products sold on your site respect their tax jurisdiction since these products originate from their business location or their warehouses (e.g. you operate a store in California, but your seller ships products out from Ohio. You are legally required to collect tax based on Ohio tax rate since the sale of the product falls under the Ohio tax jurisdiction, which is an origin-based tax collection state).

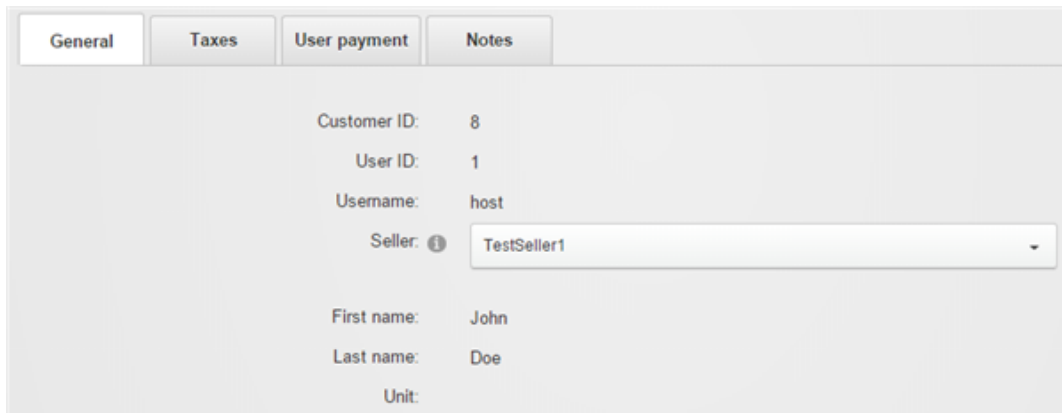
# Sellers

A seller (sometimes called a "vendor") is a business entity that will be placing their products for sale on your site. A seller account can be managed by any number of designated users in your system. Given that you can have an unlimited number of sellers and each one of them can create and manage products on your site, you need to be conscious of security to ensure they only have access to information pertinent to them and not be able to view data from other sellers or from your general business.


You must first enable the **Marketplace** feature under **Configuration > General** settings.

You also need to decide on a security role under **Configuration > Security** settings (e.g. create a security role called "Sellers" that will be used to regroup all users who are seller representatives). This role should only be granted to users who will be managing their respective seller accounts and will help you to secure access to important seller information easily later on.

You can add new seller accounts to your system from the **People > Sellers** menu. After adding a new seller, you need to associate one or more registered users who will own and manage this seller account from the **People > Customers** menu.



The screenshot shows a web interface for managing a seller account. At the top, there are four tabs: 'General' (selected), 'Taxes', 'User payment', and 'Notes'. Below the tabs, the following fields are visible:

- Customer ID: 8
- User ID: 1
- Username: host
- Seller:  TestSeller1 (dropdown menu)
- First name: John
- Last name: Doe
- Unit:

# Administration

Each seller is able to self-manage her own warehouses, products, inventory, prices, packing, shipping, handling, fulfillment and tax methods using the same familiar Storefront administrative panel as you use today.

Create a new page (e.g. "My sellers") and grant the view access to the seller role that you defined earlier. Under **Configuration > Installer**, add a new **Administration** module to the newly created page. Set the new module's settings for the **Operation mode** to "Seller".

My Website > Storefront Seller > Module

Module Settings

Permissions

Page Settings

ReindexStorefront Settings

Operation mode:

☐ Merchant

☒ Seller

Update

Delete

Cancel

You also want to grant view and edit access to all or some of the Storefront functionality for users who have your sellers role. For security purposes, sellers can only view data that is pertinent to them and not data from other sellers or from your general business.

Module Settings

Permissions

Page Settings

ReindexStorefront Settings

Filter By Group:

< Global Roles >

Select Role:

Sellers

Add

Role	View Module	Edit Module	View Dashboard	Edit Dashboard	View Catalog	Edit Catalog	View Sales	Edit Sales	View Marketing	Edit Marketing	View Configuration	Edit Configuration	View People	Edit People
Administrators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
All Users	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Registered Users	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sellers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Display Name:

Add

☒ Inherit View permissions from Page

Update

Delete

Cancel

When one of the registered users belonging to a seller account logs into that page, they will be presented with a limited view of the Storefront administrative panel allowing them to access information pertinent to their seller account.



## Order status

Order	Payment	Shipment	Recurring
1 New	2 Paid	1 Not required	0 Active
0 Processing	2 Pending	1 Not shipped	0 Hold
2 Completed	0 Cancelled	2 Shipped	0 Invalid
0 Pending	0 Refunded	0 Undeliverable	0 Cancelled
1 Declined			
0 Cancelled			

4 Orders 0 Recurring orders

## Sales snapshot

Day	Week	Month	Year
	Yesterday	Today	% Change
Revenue:	USD \$0.00	USD \$0.00	
Orders:	0	0	
Avg. order amount:			



## Order splitting

It's important to understand how Revindex Storefront treats orders when several products from different sellers or warehouse origins are being purchased together in a single cart transaction.

Many shipping and tax providers (Revindex Storefront is Avalara tax certified) expect a single origin address for a sales order used for accurate shipping and tax calculation. However, in reality, every seller and warehouse has a different business address where they will ship out the products from. Therefore, products from different sellers or warehouse purchased together in a single cart transaction are automatically split into separate orders internally for each seller and warehouse. From a usability standpoint, the customer will not notice any difference during checkout and will only make a single payment for all the products in his shopping cart resulting in less cart abandonment.

Aside from the obvious shipping and tax accuracy, the seller benefits from order splitting because the split order now consists only of her products that she needs to focus her attention on for fulfillment. It also provides a layer of privacy so that a seller cannot know what other products are purchased from other sellers on your site and prevents them from marketing to the customer unethically. Any cancellation from one seller will not affect the rest of the orders from other sellers.

Even though the orders are split, the payments are still applied to only a single order since the customer made one lump sum payment for all the products in his cart. Among the split orders, one of the orders is automatically chosen to be a parent order with the remaining orders becoming known as the child orders. Collectively, they belong to the group of orders. Any payment collected is to be made to the parent order. The sum of payments is always considered to apply to the group total amount. In other words, payment made to the parent order is also used to pay for the child orders.

The screenshot displays the 'Payment' tab in the Revindex Storefront interface. At the top, there is a navigation bar with tabs: General, Order detail, Custom field, Billing, Packing, Shipping, Handling, Tax, and Payment. Below this, there is a sub-navigation bar with tabs: Coupon, Reward, Notes, Other, and Related. The main content area shows the 'Payment status' as 'Incomplete'. Below this, there is a summary of amounts: Total amount: 18.00, Total payment: 32.69, Group total amount: 32.69, Group total payment: 32.69, and Group balance due: 0.00. At the bottom, there is a table with columns: Payment ID, Date, Method, Transaction, Gateway result, and Amount. The table contains two rows: one for Payment ID 1393 (Cash, Purchase, 32.6900) and one for Payment ID 1392 (Cash, Invoice, 32.6900). An 'Add new' button is located at the bottom left of the table.

Payment ID	Date	Method	Transaction	Gateway result	Amount
1393	2014-11-17	Cash	Purchase		32.6900
1392	2014-11-17	Cash	Invoice		32.6900

You can view the parent or child orders by looking at the Related tab. It will display all the orders that are related to this order as a group.

General

Order detail

Custom field

Billing

Packing

Shipping

Handling

Tax

Payment

Coupon

Reward

Notes

Other

Related

Order	Order status	Payment status	Shipping status	Fraud	Total
1949	Completed	Pending	NotShipped		USD \$11.69
1950	Ordered	Pending	NotShipped		USD \$3.00

Save

Recalculate order

Recalculate all

Email cart abandon

Email invoice

Email receipt

Increment inventory

Decrement inventory

Reward points

Run place order action

## Text and languages

There are two kinds of text (static and content localized text) utilized by DNN and the Storefront. Static localized text is available as part of the software and is usually found in form labels such as "First name:" or title headings. Content localized text is text created by the user such as product name and description. For example, "brown shoes" is a content text because you created a product with that name.

## International languages

Revindex Storefront supports all languages used by both static and content localization for customer facing pages. For example, your Web site may display products in the default English (United States) language as well as in French (France). When a customer visits your store, the Storefront will automatically detect the customer's preferred culture and displays the appropriate text and number format in their culture. If the localized content is not available, the Storefront will automatically try the fallback language and finally the system language (e.g. English is displayed if French is not enabled).

# Static Localization and Language Packs

Static localization is for non-data driven text such as a button label on a page that doesn't change (e.g. the button "Buy now" is static localized text).

Revindex provides translated text in the form of languages packs for various languages (e.g. Spanish, French, Italian, German, etc.). To install a language pack, log in as Host and add the language from the persona bar **Settings > Site Settings** page under the **Languages** tab. Once the language has been added, you can install the language pack under **Settings > Extensions** page by following the installation wizard.

If the language pack is not available, you can manually localize static text from the **Settings > Site Settings** page. Edit the static resources for the Site next to the desired language. Expand the nodes under:

## Local Resources

### DesktopModules

Revindex.Dnn.RevindexStorefront

App\_LocalResources

and under:

## Local Resources

### DesktopModules

Revindex.Dnn.RevindexStorefront

WebUserControls

Repeat for each of the templates where **<\_default>** is the standard templates or your portal number if you have created custom display templates. **<ModuleControl>** is one of the module controls and **<StandardX>** is which ever template name you're currently using.

## Local Resources

### DesktopModules

Revindex.Dnn.RevindexStorefront

Portals

<\_default>

Display

<ModuleControl>

<StandardX>

App\_LocalResources

Display.ascx

Check out the video tutorial below on how to change static localized text from the DNN Language editor.

## Introduction to the DotNetNuke Language Module



You can also quickly edit the resource files (\*.resx) in your site folder using Visual Studio or Notepad if you're comfortable editing an XML file.

# How to format the currency symbol

Currency symbol is determined by your Web site's selected language (also better known as culture) and the matching currency configured in your Storefront's **Configuration > Currencies** settings.

For example, if your site displays in both in English (U.S) and French (France) languages, and you have configured your Storefront's currency settings to match both languages, the currency symbol displayed will be "\$" and "€" respectively. If, however, you only enabled English (U.S) in your Storefront's currency settings, the system will automatically fallback to the primary currency.

The desired currency format is determined by your **Price display mode** under **Configuration > General** settings. If your **Price display mode** is set to "Show price", the system expects that you will only display prices without taxes. In certain countries such as in Europe, you are required by law to display the prices with taxes included. In this case, you must set your **Price display mode** to "Show price tax inclusive" to notify the system to automatically calculate the applicable taxes immediately.

To control the currency format, you can do so through the static localization from the site **Settings > Site Settings** and edit the static localization for your language. Then drill down to the node and look for the **Format.Currency.Text** for "Show price" mode and **Format.CurrencyTaxInclusive.Text** values for "Show price tax inclusive" mode.

## Local Resources

### DesktopModules

Revindex.Dnn.RevindexStorefront

### App\_LocalResources

### SharedResources

The {0} token is replaced with the currency code, the {1:c} token is replaced with the amount with currency symbol and the {2:c} token is replaced with the amount tax included with currency symbol. Depending on how you configured your **Configuration > General** price display settings, it will use one of the two formats.

For example, the following currency format "{0} {1:c}" will display "USD \$8.88". If you want to omit the "USD" currency code, simply change the format to "{1:c}" and it will print a shorter "\$8.88".

Similarly, the currency format for tax included prices of "{0} {1:c} ({2:c} tax incl)" will display "USD \$8.88 (\$9.20 tax incl)". You can shorten the format to "{2:c}" if you simply want to print "\$9.20".

You can find more information about string formatting here:

<http://msdn.microsoft.com/en-us/library/dwhawy9k.aspx> (<http://msdn.microsoft.com/en-us/library/dwhawy9k.aspx>)



# How to create your own language pack

You can also create entire install-able language pack for a translation that we don't currently support. The easiest way is to use the free DotNetNuke Translator (<http://dnntranslator.codeplex.com>) application. It allows you create and edit resource keys quickly from your desktop.

Alternatively, you can also create the language pack manually by following the steps below. Suppose you have a language (e.g. ru-RU for Russian) that we don't have the language pack for it.

1. Download any of the localized language package extract it to a temp folder. Preferably, it should match the version of the software you're installing. In this example, we'll use the French language pack **Revindex.Dnn.RevindexStorefront.LanguagePack.fr-FR.04.01.00.zip** and extract it to the following file path:

C:\Temp\Revindex.Dnn.RevindexStorefront.LanguagePack.fr-FR.04.01.00

2. Open the **.dnn** text file content and rename all occurrences of the original language code to your desired language code. For example, open C:\Temp\Revindex.Dnn.RevindexStorefront.LanguagePack.fr-FR.04.01.00\RevindexStorefront.LanguagePack.fr-FR.dnn with notepad and do a Find/Replace all from "fr-FR" to "ru-RU". Save it.
3. Use the following Powershell command to bulk replace all filenames from French to Russian. Change the command to match your source and destination language codes. Rename the file path, source and destination language codes if it's different from the example.

```
get-childitem -recurse -include *.resx,*.dnn -path "C:\Temp\Revindex.Dnn.RevindexStorefront.LanguagePack.fr-FR.04.01.00" | foreach-object {rename-item -path $_.FullName -newname ($_.Name.Replace("fr-FR", "ru-RU"))}
```

4. Open each resource file (.resx) using notepad or preferably using Visual Studio to translate the text to your desired language. You may decide to omit translating older display template resource files if you know you're not using them. If you don't want to translate the text from a text editor now, you may do so later on from the persona bar **Settings > Site Settings page** after installing your new language pack.
5. Zip up the folder so that it looks like the original package. Install it on your DNN and you will now have a new translated language for the Storefront.

# How to format page title

By default, the Storefront will append the product name to your page title (e.g. "MySite > Product"). To change the page title format, you can change adjust the static localization from the persona bar **Settings > Site Settings** and edit the static localization for your language. Then drill down to the node and look for the **Format.PageTitle.Text** values.

## Local Resources

### DesktopModules

#### Revindex.Dnn.RevindexStorefront

#### App\_LocalResources

#### SharedResources

The {0} token is replaced with the Web site name as defined in your DNN settings, the {1} token is replaced with the product name.

## Content Localization

Content localization is for data driven text such as the product name or product description (e.g. “DVD Player” in French is shown as “Lecture DVD”). Revindex Storefront supports content localization for virtually any customer visible data driven text including category names, product attributes, image gallery, alternate text, SEO keywords, etc..

Starting DNN 5.5 and above supports page content localization. You must first enable content localization under **Host > Host Settings** page under the Other Settings tab.

Enable Module Online Help: ☒

Auto-Sync File System? ☒

**Allow Content Localization? ☒**

Debug Mode ☐

Show Critical Errors on screen? ☒

Max Upload Size  Mb

Time Before Timeout:  Seconds

[Update](#) [Upload Skin/Container](#) [Clear Cache](#) [Restart Application](#)











The rest of the language management is performed under the usual **Admin > Languages** page. From there, you can add your new language(s).

### Language Management

Languages

Content Localization

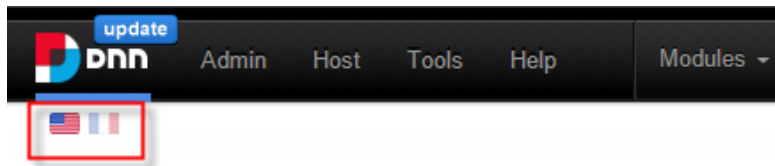
Settings

Culture	Enabled *	Edit	Static Resources		
			System	Host	Site
 English (United States) **	<input checked="" type="checkbox"/>				
 French (France)	<input checked="" type="checkbox"/>				

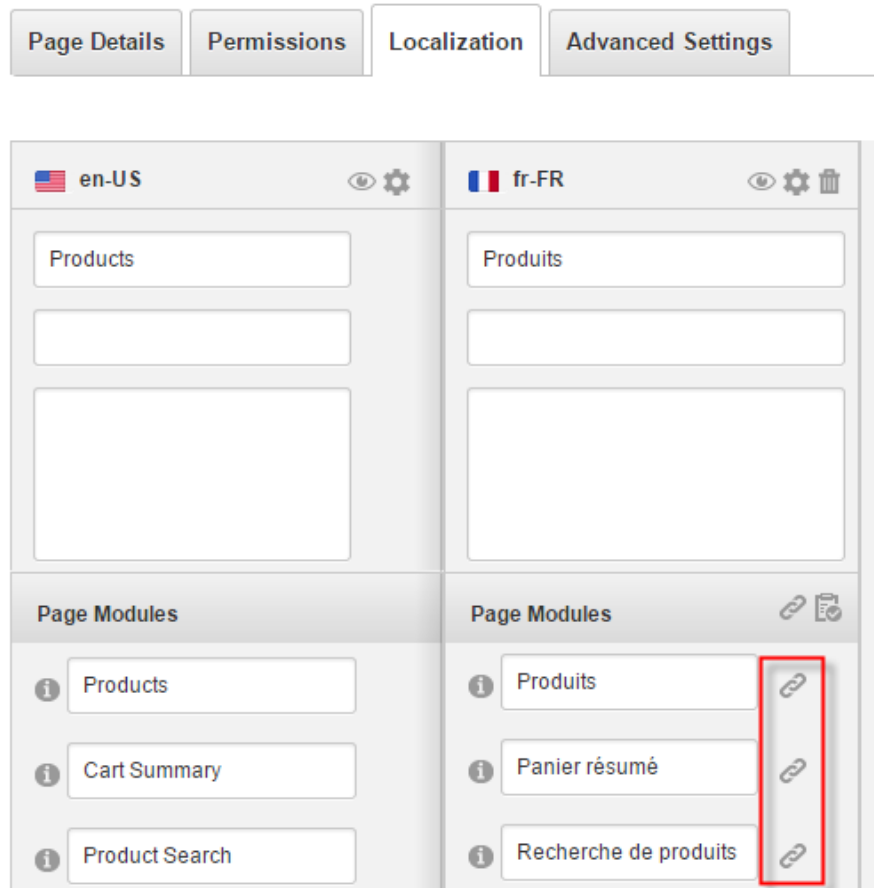
\* - A language must be enabled before it can be activated and it must be deactivated before it can be disabled

\*\* - The default site language cannot be deactivated or disabled

Adding a new language will allow you to select the page's language (or country flag) to set the edit mode in the desired language. As you edit any text fields, it will automatically save the text in that selected language.



Internally, DNN implements content localization by making copies of the page along with copies of all the module controls (also known as “detaching” a module) on the page. In practice, it allows the editor to make text changes for different languages since you now have a duplicate page for every language enabled. Since Revindex Storefront handles its own internal content localization, there is no need to duplicate the module controls. Therefore, you need to configure your page settings to keep all the Revindex Storefront modules in “attached” mode (i.e. not “detached”). From that same page settings, you can now localize the text for each of the enabled languages.



## How to localize XSL email template

Customer can receive email receipts in their preferred language and currency in the same way they would expect when shopping at your Web site. Email templates can be localized in the same way as any text fields.

To localize the email templates, simply select the desired country flag from your page and translate the email templates in the **Configuration > Communication** menu. If you don't provide a translation, the customer will receive the fallback email template.

To format numbers in your culture, you may want to modify how numbers are being grouped and how decimals are being displayed (e.g. in French, a decimal point uses a comma). The decimal-format instruction tells the system how to handle number formatting. You simply need to place this near the top of the template once.

```
{xsl:decimal-format decimal-separator="." grouping-separator="," /}
```

## Design and Styling

When it comes to designing and creativity, you have full HTML control to completely modify the look-and-feel of all the public module controls (e.g. product detail, list, cart, checkout, etc.). Our display templates use Razor and Bootstrap making it easy for you to modify the templates around structured models (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models/rvdwkpvm/section>). You can even go as far as modify and in certain cases rearrange controls and their properties to affect behaviors and layouts.

Revindex also sells amazing looking DNN skins that are optimized for the Storefront. You may prefer to purchase a ready-made skin to get a nice look and feel of the site for a quick and cost-effective implementation.

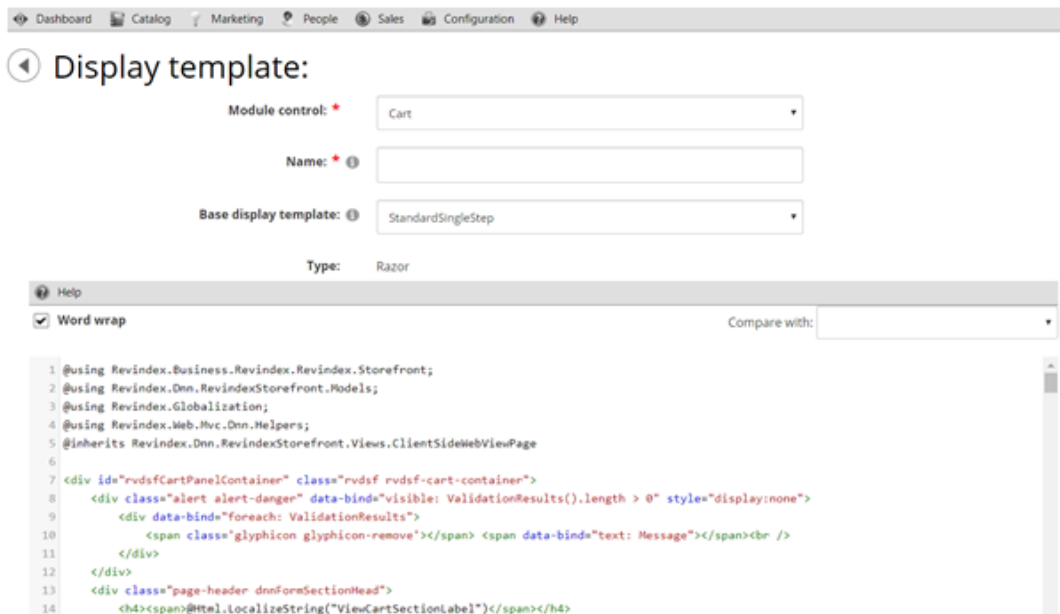
# Display Templates

All the Revindex Storefront module controls use the native DNN container skins so you have a consistent look across your Web site that you can modify from your normal **Manage > Themes** page. The user interface design follows the Bootstrap 3.x (<https://getbootstrap.com/docs/3.3/>) and DNN UX Guide (<http://uxguide.dotnetnuke.com/>) standards so that it can be modified easily in a consistent manner across your site. In addition, the content and internal look-and-feel of public facing module controls can be customized per portal.

## Creating a new display template

You must first enable the **Display templates** feature under **Configuration > General**. Once enabled, you can create display templates from the **Configuration > Display templates** menu. For example, you can customize the **Product Detail** module to change the layout, color, font, CSS style, add text and images.

Click **Add new** and choose the module you wish to customize. Give it a meaningful name (e.g. "FeaturedList1"). You now need to choose a **Base display template** as a starting point. Note, you should choose base templates of the Razor type. Older templates of type WebForms are obsolete and should not be used. The base template you selected provides the programming logic for your new template. Make the HTML, Razor or Javascript changes needed to your new template. For security to prevent unauthorized access to data, you cannot modify any server-side code unless it is explicitly allowed by your Host user under **Configuration > Security** settings. Server-side code is usually any code that is in between `@{ }` and `<% %>` tags. Once saved, your new custom template is now ready to be used.



Always start by making small incremental changes, save and view your changes you just made. Once you get comfortable, go back, repeat and make more changes. It's also a good practice to write HTML comments next to your line edits so you remember what changed.

```
1 <!-- This is a comment ignored by the browser... Changed layout to show a darker color -->
2 <div style="background-color:darkred">
```

If you want syntax highlighting, you may prefer to copy the code into a local file and edit it using the free Microsoft Visual Studio. See [How to edit template in Visual Studio \(https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-edit-template-in-visual-studio/rvdwkpvm/section\)](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-edit-template-in-visual-studio/rvdwkpvm/section) for more information.

Once you have saved your changes, you need to tell the system to use this new template (either portal-wide, module-wide or for a specific product only). For example, if you created a new custom template for the **Product Detail** module, you can change the default template portal-wide under **Display template** in the **Configuration > Product detail** menu. Please note you must first enable the **Product detail** feature under **Configuration > General** to access this functionality. You could also change the default template module-wide under the module's **Settings**. Alternatively, you can configure your individual product to use this new custom template in place of any of the portal or module default template.

## Template life cycle

We live in a period of time where technology changes very quickly introducing us to new and exciting ways to do things. Our commitment is to keep base display templates active for 2 or more years when possible. In the past, some of our base templates have endured for over 6 years. To help with changes, as the software evolves, new features introduced in base display templates carry a different version number (e.g. "Standard1", "Standard2", "Standard3") providing an upgrade path for users who are not ready to upgrade their custom template. Base display templates that have become obsolete will eventually be removed from future versions. Custom display templates based on these removed templates will no longer function. You are, therefore, encouraged to continuously upgrade any custom templates to use the latest base display templates as they become available to avoid disruption to your site.

## Razor Markup

Razor is one of the most popular server-side markup code that is easy to learn. By consuming structured models (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models/rvdwkpvm/section>), you can generate highly complex HTML code easily. Learning Razor is beyond the scope of this topic. However, there are many Razor tutorials ([https://www.w3schools.com/asp/razor\\_intro.asp](https://www.w3schools.com/asp/razor_intro.asp)) and help online to get you started.

## Bootstrap

Bootstrap (<https://getbootstrap.com/docs/3.3/>) is the most popular CSS standard for typography, forms, buttons, navigation and other interface components used by millions of sites. The CSS standard makes it easy to customize changes elements of a page. There are countless tutorials for Bootstrap. A good tutorial to start learning Bootstrap can be found here (<https://www.w3schools.com/booTsTrap/default.asp>).

## Javascript

In modern Web development, pages are rarely static. To create stunning dynamic effects, the display templates rely heavily on a combination of jQuery (<https://www.w3schools.com/JQuery/>) and KnockoutJS (<https://knockoutjs.com/>) framework. Learning Javascript is beyond of the scope of this topic, however, there are countless tutorials online that can get you learning Javascript quickly.



# Understanding CSS Precedence

If you're styling the Web page or controls using CSS, it's important to understand DotNetNuke CSS precedence. There are many CSS files loaded on a page and the order they get loaded affects the final appearance on the page. Below shows the order and sequence that CSS files get loaded onto your page.

1. **/DesktopModule/<ModuleName>/Module.css**

The module CSS gets loaded onto the page first if you have modules on the page.

2. **/Portals/\_default/Default.css**

This is the default CSS that comes included with DotNetNuke.

3. **/Portals/<PortalID or \_default>/Skins/<SkinName>/Skin.css**

Your site's skin also includes a CSS file.

4. **/Portals/<PortalID or \_default>/Skins/<SkinName>/<SkinName>.css**

Your site's skin may also includes a CSS file.

5. **/Portals/<PortalID or \_default>/Containers/<ContainerName>/Container.css**

Your site's container includes a CSS file.

6. **/Portals/<PortalID or \_default>/Containers/<ContainerName>/<ContainerName>.css**

Your site's container includes a CSS file.

7. **/Portals/<PortalID>/Portal.css**

Your portal's CSS file gets downloaded last, which also means it overrides all other CSS files for the same rule.

8. **Inline styles**

Lastly, any CSS inline styles will always override any CSS rules in the files.

Knowing how the precedence works, if you need to override a CSS rule, the easiest way is to copy or write the new rules in the Portal.css file if you don't have access to the skin packages.

## How to override CSS styles

You'll find the CSS styles used in Revindex Storefront follows closely the Bootstrap 3.x (<https://getbootstrap.com/docs/3.3/>) and DNN UX (<http://uxguide.dotnetnuke.com/>) standard therefore making it very easy to style module elements simply by overriding the style rules in your portal CSS. Please see the video tutorial below on how to override styles from your portal CSS.

### Overriding CSS in DotNetNuke using PortalCSS



# How to style buttons

Running the latest Revindex Storefront, styling buttons is as easy as styling any element on the page. The best approach is to locate the relevant CSS class and override the styles (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-override-css-styles/rvdwkpvm/section>) from your portal stylesheet under **Settings > Custom CSS settings** page.

By default, the buttons automatically apply the same styles as the rest of the buttons on your site achieving a consistent look-and-feel across all your pages. Revindex Storefront makes it easy for you to override the look-and-feel of a single button or all the same buttons (e.g. "Add to cart" buttons). The easiest way is to use the developer tool on your browser (typically by pressing F12 or CTRL+SHIFT+I on your browser). The developer tool allows you to select the button and inspect the CSS class name being applied.

As an example, let's try to style the "Add to cart" button.

1. Browse to your product list page.
2. From your IE or Chrome browser, press F12 to launch the developer tool.
3. With the selector tool (usually an arrow or magnifying glass icon), click on the "Add to cart" button. The developer tool will pinpoint the corresponding HTML that is responsible for rendering the button.

```
1 |  
2 | <a class="btn btn-primary rvdsf-btn-addtocart" href="#">Add to cart</a>  
3 |
```

4. Note the CSS class responsible for the styling the button follows Bootstrap is called "btn btn-primary rvdsf-btn-addtocart".
5. Suppose we like to change the background color of the button to green. We can override the default style of your skin from the stylesheet under **Settings > Custom CSS** settings page by pasting the following CSS rule below. This rule will change all the "Add to cart" buttons on your site.

```
1 | a.rvdsf-btn-addToCart  
2 | {  
3 |     background-color: green;  
4 | }  
5 |
```

# How to upgrade display templates

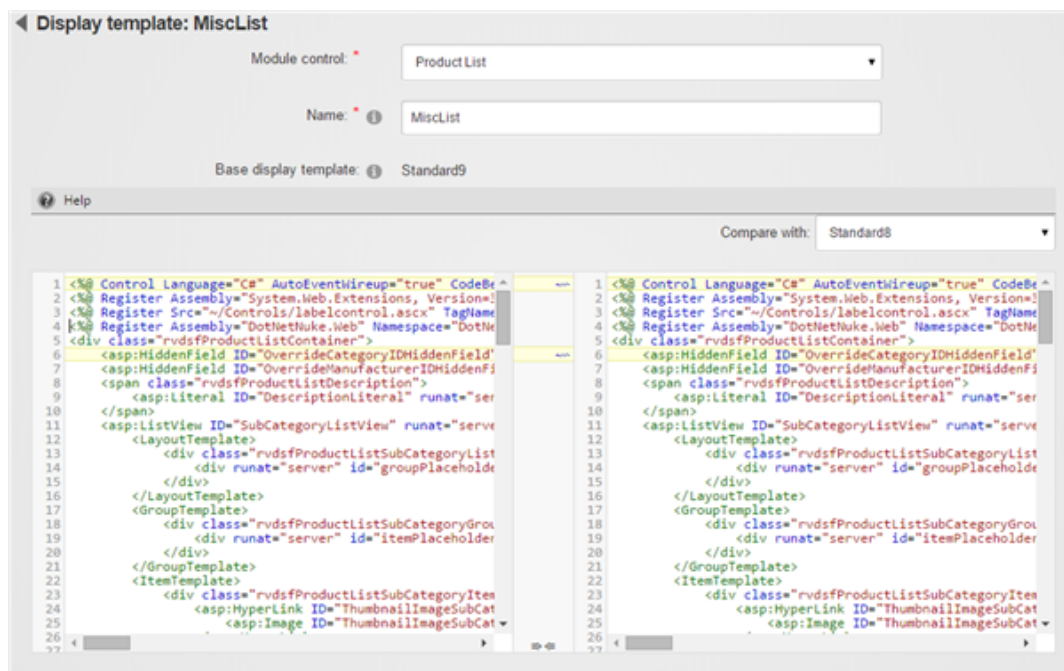
As time passes with new each new release of the software, older base display templates (e.g. "Standard1", "Standard2", etc.) may be removed from newer installation. Therefore, any custom display templates referencing the older base display templates may no longer work. You will receive an error message if you try to use them.

The Storefront comes with a basic online code merge editor to help compare line differences. You may want to employ a 3rd party merge editor like WinMerge (<http://winmerge.org/>) if you're more comfortable merging from a desktop application instead of performing the merge online.

There are several ways you can upgrade your display template (merge changes into a new template or merge changes to an existing template). We recommend to merge changes to a new display template as it is the safest approach and allows you to incrementally test your new template before overwriting your old display template.

## Merge changes to a new display template

1. Navigate to the **Configuration > Display templates** menu.
2. Create new custom display template of the same module control type that you want to upgrade.
3. Give it a name (e.g. "CustomTemplate2") and make sure you select the latest base display template with the highest suffix number (e.g. "Standard8").
4. In the **Compare with** drop down, choose your old custom display template that you want to upgrade from (e.g. "CustomTemplate1"). The left textarea should now show your new display template and the right textarea should show your old custom display template.



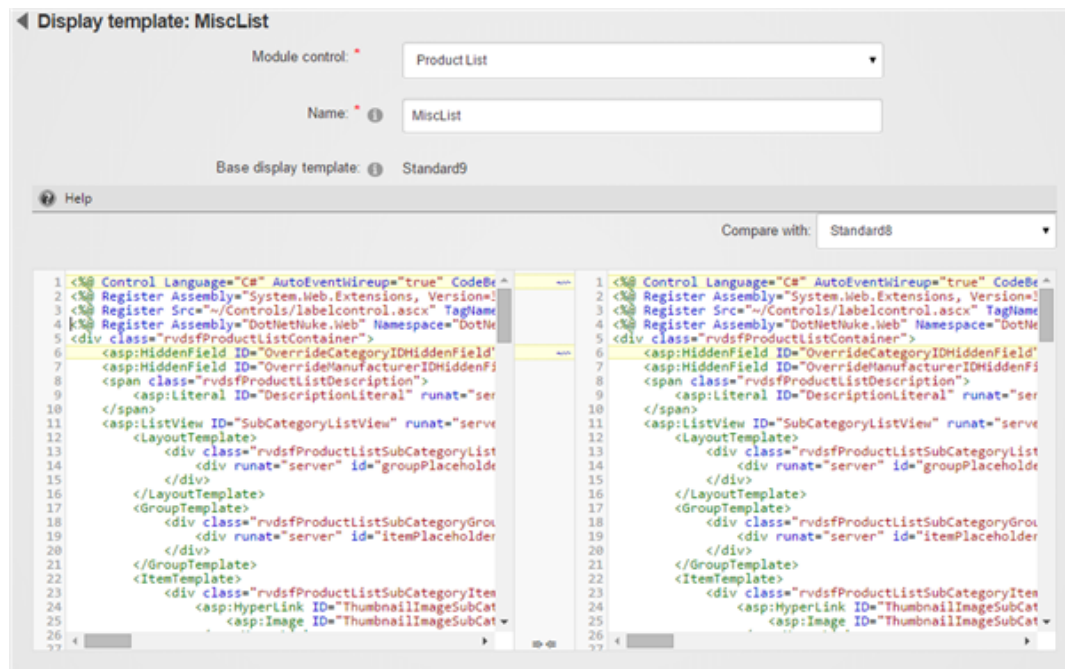
5. Look for your line changes and click on the left wiggly arrows to merge only the lines that you want to affect into the new display template (right to left). Merging code requires careful attention to details. Failure to understand what each

line does may break the structure of the code. In this case, you're looking for code changes you made to the old display template and your goal is to replicate those changes into the new display template.

6. Save your new display template.
7. Go to your configuration settings to set the respective module control to use your new custom display template.
8. Once everything is tested. You can now delete the old custom display template.

## Merge changes to an existing display template

1. Navigate to the **Configuration > Display templates** menu.
2. Select your custom display template (e.g. "CustomTemplate1") that you want to upgrade.
3. In the **Compare with** drop down, choose the newest display template with the highest suffix number (e.g. "Standard8"). The left textarea should now show your custom display template and the right textarea should show the new base display template.



4. Look for your line changes and click on the left wiggly arrows to merge the lines from the base display template into your current display template (right to left). Merging code requires careful attention to details. Failure to understand what each line does may break the structure of the code. In this case, your goal is to preserve the code changes you made in the custom display template and merge in the new code structure from the new base display template.
5. Save your custom display template and perform test.

# How to edit template in Visual Studio

The Storefront comes with its own basic template editor that should be sufficient for minor design changes. If you need to perform complex changes, you might choose to perform the work using Microsoft Visual Studio. The following steps are intended for advanced users with some basic knowledge of programming.

## Setting up Visual Studio

- Run a local copy of the Web site on your machine using IIS.
- Download (<https://visualstudio.microsoft.com/free-developer-offers/>) and install the free Microsoft Visual Studio. During the installation, if you get prompted for features to install, make sure you select C# and Web development features.

## Editing templates in Visual Studio

- From Visual Studio, open the template file located at

**`\\DesktopModules\\Revindex.Dnn.RevindexStorefront\\Portals\\0\\Display\\Cart\\NAME\\Display.cshtml`**

where "0" is your portal number or "\_default" if running the standard templates and where NAME is the template name.

- You should not edit the Standard templates directly and instead make a copy of the folder under the portal number. All custom templates must belong under a portal number and not under the "\_default" folder. Custom templates names should not begin with the word "Standard". For example, if you wish to edit the Cart template, you should copy the contents of the folder from:

**`\\DesktopModules\\Revindex.Dnn.RevindexStorefront\\Portals\\_default\\Display\\Category\\StandardTree`**

and paste to (where "0" is the portal number and "MyCustomTree" is the new template name):

**`\\DesktopModules\\Revindex.Dnn.RevindexStorefront\\Portals\\0\\Display\\Category\\MyCustomTree`**

You can then edit and work on the custom template without affecting the standard templates that get overridden on each upgrade.

- You can deploy the changes by FTP to your server following the same folder path convention.

## Debugging the template

- To inspect the data, you can attach the Visual Studio debugger to a running process. Make sure to run Visual Studio as Administrator. From a browser, visit your Web site first to kick off the Web process.
- From the Visual Studio menu, click on **Debug > Attach to Process** menu. Select the **w3wp.exe** process and click **Attach**. In your template code, click on the left hand vertical bar to place a breakpoint (red dot) next to any line with C# code where you want the debugger to pause.
- From your browser, simply reload the desired Web page that is used by the template. At this point, Visual Studio will stop at the breakpoint allowing you to view the data at that line. To inspect the data, place your mouse over the variable and

right mouse click on **QuickWatch**.

- To debug the next line, click on **F10**. To resume code, click on **F5**. To stop debugging, click on **Debug > Detach All**.

# How to expand panel by default

This topic only applies to older display templates running WebForms type. Newer templates using Razor type makes this step very easy.

The Storefront uses collapsible panels in many places to improve usability. The panels are typically created using standard DNN or jQuery panels. To expand a panel by default, you can add the following Javascript.

1. Create a custom display template (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/display-templates/rvdwkpvm/section>) for your desired module.
2. Find the section of code that controls the panels and take note of the ID in the h2 element.

```
<asp:Panel ID="EstimateShippingTaxPanel" runat="server" DefaultButton="EstimateShippingTaxLinkButton">
  <h2 id="EstimateShippingTaxFormSectionHead" class="dnnFormSectionHead">
    <a href="#"><asp:Label ID="EstimateShippingTaxSectionLabel" runat="server"
resourcekey="EstimateShippingTaxSectionLabel" /></a></h2>
    <fieldset>
```

3. Add the following Javascript to an area in the code that does not conflict or break the tag symmetry. Replace the search key by the ID you copied earlier.

```
<script>
jQuery(document).ready(function ()
{
  if (document.cookie.indexOf("EstimateShippingTaxFormSectionHead") < 0)
    $("#EstimateShippingTaxFormSectionHead > a").click();
});
</script>
```

4. Save and make sure your module is now using this new custom display template.



# Removing unwanted elements

This topic only applies to older display templates running WebForms type. Newer templates using Razor type makes this step very easy.

You can safely delete any unwanted HTML elements ([http://www.w3schools.com/html/html\\_elements.asp](http://www.w3schools.com/html/html_elements.asp)) but never delete any server-side ASP.NET elements (elements that begin with "asp:" prefix) as these server controls are needed by the application to run.

For example, you can delete the `<a href="/somewhere" />` because this is just a plain regular HTML element, however, you should not delete `<asp:HyperLink runat="server" NavigateUrl="/somewhere" />`.

Instead, you should use CSS to hide the unwanted ASP.NET elements. For example, you can add the `style="display:none"` or `style="visibility:hidden"` to the ASP.NET element.

```
1 <asp:Label ID="SavingsValueLabel" runat="server" style="display:none" />
2 <div style="visibility:hidden" />
3
```

# Styling Telerik controls

This topic only applies to older display templates running WebForms type. Newer templates using Razor type makes this step very easy.

Many of the Storefront controls utilize the Telerik controls and are officially supported by DNN (any control you see that has the **Dnn<Control>** prefix are all RadControls from Telerik such as "DnnCalendar"). To style the Telerik controls, you have several options:

1. Either create a custom display template and edit the HTML/ASP.NET properties of the controls to change the button styles. Here's some demo and property reference online at Telerik (you'll also find examples for other Telerik controls on that same page on the left menu):

<http://demos.telerik.com/aspnet-ajax/...> (<http://demos.telerik.com/aspnet-ajax/button/examples/overview/defaultcs.aspx>)

<http://www.telerik.com/help/aspnet-aj...> ([http://www.telerik.com/help/aspnet-ajax/button\\_overview.html](http://www.telerik.com/help/aspnet-ajax/button_overview.html))

2. You can make use of the Telerik style builder site (<http://stylebuilder.telerik.com/New.aspx>). Give the Skin name "Default" and select any Base skin. Then select the control you want to adjust and click **Create**. Edit the styles and click **Save**. Download the CSS package and extract it to open up the included CSS file. Copy and paste the entire CSS styles to the bottom of your portal CSS file under **Admin > Site Settings** page.

3. The other way is to modify/include CSS as part of your skin templates under the WebControlSkin folder for each control type. You can follow the example of standard DNN skin (\_default or MinimalEntropy) that already includes some WebControlSkin CSS if you look under your Web site folder:

**\Portals\\_default\Skins\\_default\WebControlSkin\**

Follow the CSS reference on the Telerik web site:

<http://www.telerik.com/help/aspnet-aj...> ([http://www.telerik.com/help/aspnet-ajax/button\\_appearancecssfileselectors.html](http://www.telerik.com/help/aspnet-ajax/button_appearancecssfileselectors.html))

4. If you simply what to modify it to follow a theme, you can also try to use certain standard skins that are included with Telerik controls by setting the **Skin="xxx"** property on the Dnn<Control> tag. Not every skin is included but the common ones should work. For example:

**<dnn2:DnnRadButton ... Skin="Simple" ...**

You can see the examples here by clicking on the top right button to switch skin or see the reference:

<http://demos.telerik.com/aspnet-ajax/...> (<http://demos.telerik.com/aspnet-ajax/button/examples/default/defaultcs.aspx>)

<http://www.telerik.com/help/aspnet-aj...> (<http://www.telerik.com/help/aspnet-ajax/button-appearance-skins.html>)

# Models

# CartModel

Member	Type	Description
TabID	Integer	Database object identifier for the page.
TabUrl	String	The absolute URL for the page.

## CartSummaryViewModel

Member	Type	Description
Cart	CartModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section</a> )	
Checkout	CheckoutModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section</a> )	
SalesOrderSet	SalesOrderSetModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordersetmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordersetmodel/rvdwkpvm/section</a> )	
ShowRewardsPoint	Boolean	

## CartViewModel

Member	Type	Description
Cart	CartModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section</a> )	
Checkout	CheckoutModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section</a> )	
DefaultCity	String	
DefaultCountryCode	String	
DefaultPostalCode	String	
DefaultSubdivisionCode	String	
RequireProfileSubdivision	Boolean	
SalesOrderSet	SalesOrderSetModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordersetmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordersetmodel/rvdwkpvm/section</a> )	
Shopping	ShoppingModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-shoppingmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-shoppingmodel/rvdwkpvm/section</a> )	
ShowCoupon	Boolean	
ShowCrosssellProduct	Boolean	
ShowEstimateShippingTax	Boolean	
ShowRewardsPoint	Boolean	
ValidationResults	List<ValidationResultModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-validationresultmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-validationresultmodel/rvdwkpvm/section</a> )>	

# CategoryModel

Member	Type	Description
CategoryID	Integer	Database object identifier.
DefaultThumbnailGallery	GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )	Default thumbnail gallery associated to this category.
Description	String	Category description.
DisplayOrder	Integer	Sort display order from smallest to largest number.
Galleries	List<GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )>	Galleries associated to this category.
MetaDescription	String	Meta description.
MetaKeywords	String	Meta keywords.
Name	String	Category name.
ParentCategoryID	Integer?	For sub-category, reference to a parent object by its CategoryID.
ProductCount	Integer	The estimated number of products associated to this category.
ProductList	ProductListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
Published	Boolean	Enable display of the category.





## CategoryViewModel

Member	Type	Description
CategoryID	Integer?	The currently selected category.
ProductList	ProductListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
Categories	List<CategoryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-categorymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-categorymodel/rvdwkpvm/section</a> )>	

## CheckoutModel

Member	Type	Description
DynamicFormCode	DynamicFormCodeModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformcodemodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformcodemodel/rvdwkpvm/section</a> )	Custom fields.
TabID	Integer	Database object identifier for the page.
TabUrl	String	The absolute URL for the page.

## CheckoutViewModel

Member	Type	Description
AllowPurchaseOrder	Boolean	
AllowUserRegistration	Boolean	
AvailabilityMessage	String	Message to print if checkout is disallowed.
AvailablePaymentMethods	List<PaymentMethodModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodmodel/rvdwkpvm/section</a> )>	Available and allowed payment methods.
AvailableRewardsPoints	Integer	Number of available points to redeem.
Cart	CartModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section</a> )	
Checkout	CheckoutModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section</a> )	
Confirmation	ConfirmationModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-confirmationmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-confirmationmodel/rvdwkpvm/section</a> )	
DefaultBillingCity	String	
DefaultBillingCompany	String	
DefaultBillingCountryCode	String	
DefaultBillingEmail	String	
DefaultBillingFirstName	String	
DefaultBillingLastName	String	

DefaultBillingPhone	String	
DefaultBillingPostalCode	String	
DefaultBillingStreet	String	
DefaultBillingSubdivisionCode	String	
DefaultBusinessTaxNumber	String	
DefaultShippingCity	String	
DefaultShippingCompany	String	
DefaultShippingCountryCode	String	
DefaultShippingEmail	String	
DefaultShippingFirstName	String	
DefaultShippingLastName	String	
DefaultShippingPhone	String	
DefaultShippingPostalCode	String	
DefaultShippingStreet	String	
DefaultShippingSubdivisionCode	String	
DefaultShippingPostalCode	String	
DefaultShippingStreet	String	
DefaultShippingSubdivisionCode	String	
GeneralError	String	General error returned by the server if checkout state becomes invalid.
GeneralWarning	String	General warning returned by the server regarding the state of the checkout.
IsAvailable	Boolean	Determine if checkout is available for customer.

Login	LoginModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-loginmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-loginmodel/rvdwkpvm/section</a> )	
MinRewardsPointRedeemQuantity	Integer	Minimum points that can be redeemed.
PrimaryPaymentMethod	PaymentMethodType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodtype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodtype/rvdwkpvm/section</a> )?	
PrimaryUserPaymentGUID	GUID?	
Registration	RegistrationModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-registrationmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-registrationmodel/rvdwkpvm/section</a> )	
RequireProfileSubdivision	Boolean	If a subdivision address must be specified to complete checkout.
SalesOrderSet	SalesOrderSetModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordersetmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordersetmodel/rvdwkpvm/section</a> )	
Shopping	ShoppingModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-shoppingmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-shoppingmodel/rvdwkpvm/section</a> )	
ShowBusinessTaxNumber	Boolean	
ShowCoupon	Boolean	
ShowPurchaseOrderNumber	Boolean	
ShowRewardsPoint	Boolean	
UserAddresses	List<UserAddressModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-useraddressmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-useraddressmodel/rvdwkpvm/section</a> )>	

UserPayments	List<UserPaymentModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-userpaymentmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-userpaymentmodel/rvdwkpvm/section</a> )>	
ValidationResults	List<ValidationResultModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-validationresultmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-validationresultmodel/rvdwkpvm/section</a> )>	

# CodeType

Name	Value	Description
None	1	
Data	2	
AspNetMarkup	3	

## ConfirmationModel

Member	Type	Description
TabID	Integer	Database object identifier for the page.
TabUrl	String	The absolute URL for the page.



## ConfirmationViewModel

Member	Type	Description
PrintUrl	String	
SalesOrderGUID	GUID?	
SalesOrderSet	SalesOrderSetModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordersetmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordersetmodel/rvdwkpvm/section</a> )	
Shopping	ShoppingModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-shoppingmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-shoppingmodel/rvdwkpvm/section</a> )	
ShowRewardsPoint	Boolean	
StartupScript	String	Used for injecting any javascript like analytics tracking code.
ValidationResults	List<ValidationResultModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-validationresultmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-validationresultmodel/rvdwkpvm/section</a> )>	

## CrosssellProductModel

Member	Type	Description
CrosssellProductID	Integer	Database object identifier.
Description	String	
DisplayOrder	Integer	
OfferProduct	ProductModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section</a> )	The product to offer.
OfferProductID	Integer	
ProductID	Integer?	
Title	String	

## CrosssellProductViewModel

Member	Type	Description
Cart	CartModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section</a> )	
Checkout	CheckoutModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section</a> )	
CrosssellProducts	List<CrosssellProductModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-crosssellproductmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-crosssellproductmodel/rvdwkpvm/section</a> )>	

# DistributorFilterModel

Member	Type	Description
DistributorIDs	List<int>	

## DistributorModel

Member	Type	Description
Description	String	Short description.
DisplayOrder	Integer	Sort display order from smallest to largest number.
DistributorID	Integer	Database object identifier.
MetaDescription	String	Meta description.
MetaKeywords	String	Meta keywords.
Name	String	Distributor name.
ProductCount	Integer	The estimated number of products associated to this distributor.
ProductList	ProductListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
Published	Boolean	

## DistributorViewModel

Member	Type	Description
DistributorID	Integer?	The currently selected distributor.
ProductList	ProductListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
Distributors	List<DistributorModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributormodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributormodel/rvdwkpvm/section</a> )>	

## DynamicFormCodeModel

Member	Type	Description
DynamicForm	DynamicFormModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformmodel/rvdwkpvm/section</a> )	
Formula	String	
Version	String	
Type	CodeType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-codetype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-codetype/rvdwkpvm/section</a> )	

# DynamicFormFieldModel

Member	Type	Description
ID	String	



## DynamicFormModel

Member	Type	Description
Fields	List<DynamicFormFieldModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformfieldmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformfieldmodel/rvdwkpvm/section</a> )>	

# GalleryFormatType

Name	Value	Description
Detailed	1	SEO alternate text for the image.
Display	2	Gallery sort order from smallest to largest number.
Thumbnail	3	Detailed, Display, Thumbnail

## GalleryModel

Member	Type	Description
AlternateText	String	SEO alternate text for the image.
DisplayOrder	Integer	Gallery sort order from smallest to largest number.
Format	GalleryFormatType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-galleryformattype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-galleryformattype/rvdwkpvm/section</a> )	Detailed, Display, Thumbnail
GalleryID	Integer	Database object identifier.
Height	Integer	
MediaType	String	
MediaUrl	String	The absolute URL to the image.
Width	Integer	

# IntervalType

Name	Value	Description
Day	1	
Month	3	
Week	2	
Year	4	

## InventoryUnitType

Name	Value	Description
Constant	1	Inventory is fixed for non-booking product.
Year	2	Inventory can be reserved yearly in the case of a booking product.
Month	3	Inventory can be reserved montly in the case of a booking product.
Week	4	Inventory can be reserved weekly in the case of a booking product.
Day	5	Inventory can be reserved daily in the case of a booking product.
Hour	6	Inventory can be reserved hourly in the case of a booking product.

# LoginModel

Member	Type	Description
TabUrl	String	The absolute URL for the page.

# ManageWishListModel

Member	Type	Description
TabID	Integer	Database object identifier for the page.
TabUrl	String	The absolute URL for the page.

# ManufacturerFilterModel

Member	Type	Description
ManufacturerIDs	List<int>	



## ManufacturerModel

Member	Type	Description
Description	String	Short description.
DisplayOrder	Integer	Sort display order from smallest to largest number.
ManufacturerID	Integer	Database object identifier.
MetaDescription	String	Meta description.
MetaKeywords	String	Meta keywords.
Name	String	Distributor name.
ProductCount	Integer	The estimated number of products associated to this manufacturer.
ProductList	ProductListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
Published	Boolean	

## ManufacturerViewModel

Member	Type	Description
ManufacturerID	Integer?	The currently selected manufacturer.
ProductList	ProductListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
Manufacturers	List<ManufacturerModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturermodel/rvdwkpvm/section</a> )>	

## PagerModel

Member	Type	Description
PageSize	Integer	Number of items per page.
CurrentPageNumber	Integer	Current page number starting from 1.
TotalItems	Integer	Total number of items.
TotalPages	Integer	Number of pages given the page size.

## PaymentMethodModel

Member	Type	Description
PaymentMethodName	String	
PaymentMethod	PaymentMethodType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodtype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodtype/rvdwkpvm/section</a> )	
PaymentGateway	String	
PublicKey	String	

## PaymentMethodType

Name	Value	Description
AuthorizeNetCIM	18	
AuthorizeNetSIM	13	
Cash	1	
Check	2	
CreditCard	3	
DotPay	21	
MasterCardIGSHosted	14	
Mollie	11	
MoneyOrder	4	
None	7	
PayFast	8	
PaymentExpress	22	
PayPal	6	
Paystation3Party	15	
PayUBusiness	19	
RewardsPoint	16	
SagePayForm	17	
SuomenVerkkomaksut	12	
Towah	9	
VirtualCardServicesPay	20	

Voucher	10	
WireTransfer	5	

PaymentTermType

Name	Value	Description
COD	1	
Net30	5	

# PriceFilterModel

Member	Type	Description
MinPrice	Decimal	
MaxPrice	Decimal ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	



# ProductAttributeDefinitionModel

Member	Type	Description
Comparable	Boolean	Determines if this attribute type can be used for product comparison.
Description	String	Localized description.
DisplayOrder	Integer	Sort display order.
Filterable	Boolean	Product list can filter by this attribute type.
HelpText	String	Help displayed in tooltip.
Name	String	Localized name.
ProductAttributeDefinitionID	Integer	Database object identifier.
ProductAttributeGroup	ProductAttributeGroupModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributegroupmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributegroupmodel/rvdwkpvm/section</a> )	
ProductAttributeType	ProductAttributeType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributetype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributetype/rvdwkpvm/section</a> )	
Published	Boolean	
StepSize	Decimal	The incremental change for decimal attribute type input.

# ProductAttributeDefinitionSelectionModel

Member	Type	Description
DisplayOrder	Integer	Sort display order.
ProductAttributeDefinitionSelectionID	Integer	Database object identifier.
Text	String	

# ProductAttributeFilterModel

Member	Type	Description
ProductAttributeDefinitionID	Integer	
Values	List<String>	

# ProductAttributeGroupModel

Member	Type	Description
Description	String	Localized description.
DisplayOrder	Integer	Sort display order.
Name	String	Localized name.
ProductAttributeGroupID	Integer	Database object identifier.

## ProductAttributeModel

Member	Type	Description
BooleanValue	Boolean?	Boolean type value. If you specify a value here, you must not specify the DecimalValue, IntegerValue, SelectionValue or StringValue.
DecimalValue	Decimal?	Decimal type value. If you specify a value here, you must not specify the BooleanValue, IntegerValue, SelectionValue or StringValue.
IntegerValue	Integer?	Integer type value. If you specify a value here, you must not specify the BooleanValue, DecimalValue, SelectionValue or StringValue.
ProductAttributeID	Integer	Database object identifier.
ProductAttributeDefinitionID	Integer	Associate this attribute to the Product Attribute Definition by its ProductAttributeDefinitionID.
ProductAttributeDefinition	ProductAttributeDefinitionModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributedefinitionmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributedefinitionmodel/rvdwkpvm/section</a> )	
ProductID	Integer?	Associate this attribute to the product by its ProductID.
ProductVariantID	Integer?	Associate this attribute to the product variant by its ProductVariantID.

SelectionValue	List<ProductAttributeDefinitionSelectionModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributedefinitionselectionmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributedefinitionselectionmodel/rvdwkpvm/section</a> )>	Selection values
StringValue	String	Localized string type value. If you specify a value here, you must not specify the BooleanValue, DecimalValue, IntegerValue or SelectionValue.

# ProductAttributeType

Name	Value	Description
Boolean	1	True or false type.
Integer	2	
Decimal	3	
String	4	
Selection	5	

## ProductComparisonModel

Member	Type	Description
TabID	Integer	Database object identifier for the page.
TabUrl	String	The absolute URL for the page.



## ProductComparisonViewModel

Member	Type	Description
Cart	CartModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section</a> )	
Checkout	CheckoutModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section</a> )	
ProductList	ProductListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
ProductVariants	List<ProductVariantModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section</a> )>	

## ProductComponentModel

Member	Type	Description
ComponentType	ProductComponentType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productcomponenttype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productcomponenttype/rvdwkpvm/section</a> )	
DisplayOrder	Integer	
Name	String	
ProductComponentID	Integer	Database object identifier.
ProductParts	List<ProductPartModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-model-productpartmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-model-productpartmodel/rvdwkpvm/section</a> )>	

# ProductComponentType

Name	Value	Description
Explicit	2	Parts are shown to customer.
Implicit	1	Parts are hidden from customer.
Multiple	3	Customer can select multiple parts.
Single	4	Customer can select only one from choices.

# ProductDetailModel

Member	Type	Description
TabID	Integer	Database object identifier for the page.
TabUrl	String	The absolute URL for the page.

## ProductDetailViewModel

Member	Type	Description
Cart	CartModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section</a> )	
Checkout	CheckoutModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section</a> )	
Login	LoginModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-loginmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-loginmodel/rvdwkpvm/section</a> )	
ManageWishList	ManageWishListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-pagermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-pagermodel/rvdwkpvm/section</a> )	
Product	ProductModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section</a> )	
ProductAttributeDefinitions	List<ProductAttributeDefinitionModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributedefinitionmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributedefinitionmodel/rvdwkpvm/section</a> )>	
ProductAttributeGroups	List<ProductAttributeGroupModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributegroupmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributegroupmodel/rvdwkpvm/section</a> )>	
ProductComparison	ProductComparisonModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productcomparisonmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productcomparisonmodel/rvdwkpvm/section</a> )	
ProductVariant	ProductVariantModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section</a> )	
Shopping	ShoppingModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-shoppingmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-shoppingmodel/rvdwkpvm/section</a> )	
ShowAddToWishList	Boolean	

ShowContinueShopping	Boolean	
ShowSocialShare	Boolean	
ShowViewCart	Boolean	
WishLists	List<WishListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlistmodel/rvdwkpvm/section</a> )>	

## ProductFilterModel

Member	Type	Description
PriceFilter	PriceFilterModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-pricefiltermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-pricefiltermodel/rvdwkpvm/section</a> )	
DistributorFilter	DistributorFilterModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributorfiltermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributorfiltermodel/rvdwkpvm/section</a> ) ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
ManufacturerFilter	ManufacturerFilterModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturerfiltermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturerfiltermodel/rvdwkpvm/section</a> )	
ProductAttributeFilters	List<ProductAttributeFilterModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributefiltermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributefiltermodel/rvdwkpvm/section</a> )>	
IsApplied	Boolean	Indicates if any filter is used.

## ProductFilterViewModel

Member	Type	Description
CategoryID	Integer?	The currently selected category database object identifier.
DistributorFilterable	Boolean	Distributor can be filtered.
DistributorID	Integer?	The currently selected distributor database object identifier.
Distributors	List<DistributorModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributormodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributormodel/rvdwkpvm/section</a> )>	
ManufacturerFilterable	Boolean	
ManufacturerID	Integer?	The currently selected manufacturer database object identifier.
Manufacturers	List<ManufacturerModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturermodel/rvdwkpvm/section</a> )>	
PriceFilterable	Boolean	
PriceStepSize	Decimal	
PageViewDisplayOrder	ProductListPageViewDisplayOrderType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistpageviewdisplayordertype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistpageviewdisplayordertype/rvdwkpvm/section</a> )	
PageViewMode	String	
PageViewSize	Integer	



ProductAttributeDefinitions	List<ProductAttributeDefinitionModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributedefinitionmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributedefinitionmodel/rvdwkpvm/section</a> )>	
ProductAttributes	List<ProductAttributeModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributemodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributemodel/rvdwkpvm/section</a> )>	
ProductAttributeGroups	List<ProductAttributeGroupModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributegroupmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributegroupmodel/rvdwkpvm/section</a> )>	
ProductFilter	ProductFilterModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productfiltermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productfiltermodel/rvdwkpvm/section</a> )	
ProductList	ProductListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
Products	List<ProductModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section</a> )>	
SearchQuery	String	

## ProductInventoryEmptyBehaviorType

Name	Value	Description
DisallowOrder	1	Show product but disallow it from being ordered.
DisableProduct	2	Hide product.
AllowBackorder	3	Allow ordering even if inventory is empty.

# ProductListModel

Member	Type	Description
TabID	Integer	Database object identifier for the page.
TabUrl	String	The absolute URL for the page.

ProductListPageViewDisplayOrderType

Name	Value	Description
AlphabeticalName	2	
HighestPrice	5	
HighestRatings	7	
LowestPrice	4	
LowestRatings	6	
Newest	8	
Oldest	9	
Recommended	1	
ReverseName	3	

## ProductListViewModel

Member	Type	Description
Cart	CartModel ( <a href="http://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section">http://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section</a> )	
Category	CategoryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-categorymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-categorymodel/rvdwkpvm/section</a> )	The current selected category.
Checkout	CheckoutModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section</a> )	
Distributor	DistributorModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributormodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributormodel/rvdwkpvm/section</a> )	The current selected distributor.
FilteredProducts	List<ProductModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section</a> )>	Current available products with product filtering applied.
Manufacturer	ManufacturerModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturermodel/rvdwkpvm/section</a> )	The current selected manufacturer.
PagedFilteredProducts	List<ProductModel ( <a href="http://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section">http://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section</a> )>	Current available products with product filtering and paging applied.
Pager	PagerModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-pagermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-pagermodel/rvdwkpvm/section</a> )	Paging for products.

PageViewDisplayOrder	ProductListPageViewDisplayOrderType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistpageviewdisplayordertype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistpageviewdisplayordertype/rvdwkpvm/section</a> )	
PageViewMode	String	The current selected page view mode.
PageViewSize	Integer	Number of products to display per page.
ProductComparison	ProductComparisonModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productcomparisonmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productcomparisonmodel/rvdwkpvm/section</a> )	
Products	List<ProductModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section</a> )>	Current available products.
SearchQuery	String	The current search query.
ShowSubCategory	Boolean	
SubCategories	List<CategoryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-categorymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-categorymodel/rvdwkpvm/section</a> )>	Categories associated to the current product list view.

# ProductModel

Member	Type	Description
AllowInternetOrder	Boolean	Allow purchase online.
AllowPhoneOrder	Boolean	Allow purchase by phone.
AllowProductReview	Boolean	Allow customers to post reviews and ratings.
AverageOverallRating	Double	
BuyingGuide	String	Buying guide text.
BuyingGuideName	String	Override default name for the buying guide description.
CreateDate	DateTime	
DefaultDisplayGallery	GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )	Default display gallery associated with this product.
DefaultProductVariant	ProductVariantModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section</a> )	Default product variant.
DefaultThumbnailGallery	GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )	Default thumbnail gallery associated with this product.
DisplayOrder	Integer	Product sort order from smallest to largest number.
DynamicFormCode	DynamicFormCodeModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformcodemodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformcodemodel/rvdwkpvm/section</a> )	Custom HTML or input form elements.
FAQ	String	FAQ text.

FAQName	String	Override default name for the FAQ description.
Featured	Boolean	Indicate if product is “featured” and should be displayed on product list module control even if no category is selected.
FormattedMaxCombinedSellingPrice	String	Formatted max combined selling price.
FormattedMinCombinedSellingPrice	String	Formatted min combined selling price.
Galleries	List<GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )>	Gallery images belonging to this product.
HasVariantGroupAssociation	Boolean	
IsFiltered	Boolean	
MaxCombinedSellingPrice	Decimal	Max combined selling price.
MaxCombinedSellingPriceWithTax	Decimal	Max combined selling price with tax included.
MetaDescription	String	Meta description.
MetaKeywords	String	Meta keywords.
MinCombinedSellingPrice	Decimal	Min combined selling price.
MinCombinedSellingPriceWithTax	Decimal	Min combined selling price with tax included.
Name	String	Product name.
Overview	String	Overview text.
OverviewName	String	Override default name for the overview description.
PageTitle	String	Page title.



ProductAttributes	List<ProductAttributeModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributemodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributemodel/rvdwkpvm/section</a> )>	Product attributes associated with this product.
ProductDetail	ProductDetailModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productdetailmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productdetailmodel/rvdwkpvm/section</a> )	
ProductID	Integer	Database object identifier.
ProductReviews	List<ProductReviewModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productreviewmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productreviewmodel/rvdwkpvm/section</a> )>	Product reviews associated with this product.
ProductVariantGroups	List<ProductVariantGroupModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantgroupmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantgroupmodel/rvdwkpvm/section</a> )>	
ProductVariants	List<ProductVariantModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section</a> )>	Available product variants associated with this product.
ProductType	Integer	Regular = 1
Published	Boolean	Enable display of the product.
Seller	SellerModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-sellermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-sellermodel/rvdwkpvm/section</a> )	
ShowAddToCart	Boolean	
ShowAddToWishList	Boolean	
ShowBuyNow	Boolean	
ShowInventory	Boolean	
ShowMSRP	Boolean	
ShowPrice	Boolean	

ShowProductReviews	Boolean	
ShowQuantity	Boolean	
ShowRewardPoints	Boolean	
ShowSavings	Boolean	
ShowSeeDetails	Boolean	
ShowSKU	Boolean	
ShowSocialShare	Boolean	
ShowUpdate	Boolean	
Specifications	String	Specifications text.
SpecificationsName	String	Override default name for the specifications description.
StartDate	DateTime?	When to start publishing product.
StopDate	DateTime?	When to stop publishing product.
Summary	String	Summary text.
Terms	String	Terms text.
TermsName	String	Override default name for the terms description.
UpdateDate	DateTime	

## ProductPartModel

Member	Type	Description
DefaultQuantity	Integer	
MaxOrderQuantity	Integer?	
MinOrderQuantity	Integer?	
ProductPartID	Integer	Database object identifier.
ProductVariant	ProductVariantModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section</a> )	
ProductVariantID	Integer	
Quantity	Integer?	
Selected	Boolean	
ShowPrice	Boolean	
ShowQuantity	Boolean	

# ProductReviewModel

Member	Type	Description
Approved	Boolean	
Comment	String	
CreateDate	DateTime	
DisplayName	String	
Email	String	
FirstName	String	
LastName	String	
OverallRating	Integer	
Product	ProductModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section</a> )	
ProductID	Integer	
ProductReviewID	Integer	Database object identifier.
Title	String	
UpdateDate	DateTime	
User	UserModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-usermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-usermodel/rvdwkpvm/section</a> )	
UserHostAddress	String	
UserID	Integer	

## ProductReviewViewModel

Member	Type	Description
AllowAnonymousAccount	Boolean	
Login	LoginModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-loginmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-loginmodel/rvdwkpvm/section</a> )	
PagedProductReviews	List<ProductReviewModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productreviewmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productreviewmodel/rvdwkpvm/section</a> )>	
Pager	PagerModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-pagermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-pagermodel/rvdwkpvm/section</a> )	

## ProductSearchViewModel

Member	Type	Description
ProductList	ProductListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
SearchQuery	String ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	

# ProductShowcaseDisplayEffectType

Name	Value	Description
AutomaticAdvance	1	
ButtonMouseOver	2	
ButtonClick	3	

ProductShowcaseScrollDirectionType

Name	Value	Description
Left	1	
Right	2	
Up	4	
Down	8	



## ProductShowcaseViewModel

Member	Type	Description
Cart	CartModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section</a> )	
Checkout	CheckoutModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section</a> ) ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productlistmodel/rvdwkpvm/section</a> )	
DisplayEffect	ProductShowcaseDisplayEffectType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productshowcasedisplayeffecttype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productshowcasedisplayeffecttype/rvdwkpvm/section</a> )	
FrameDuration	Integer	
ProductID	Integer?	
Products	List<ProductModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productmodel/rvdwkpvm/section</a> )>	
ScrollDirection	ProductShowcaseScrollDirectionType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productshowcasescrolldirectiontype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productshowcasescrolldirectiontype/rvdwkpvm/section</a> )	
ScrollDuration	Integer	
VisibleMaxItems	Integer	
Width	String	
WrapFrames	Boolean	

# ProductVariantGroupFieldType

Name	Value	Description
ColorPicker	3	
DropDownList	1	
ImageSwatch	4	
RadioButtonList	2	

## ProductVariantGroupModel

Member	Type	Description
DisplayOrder	Integer	
FieldType	ProductVariantGroupFieldType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantgroupfieldtype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantgroupfieldtype/rvdwkpvm/section</a> )	
HelpText	String	
Name	String	
ProductVariantGroupID	Integer	Database object identifier.
ProductVariantGroupOptions	List<ProductVariantGroupOptionModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-model-productvariantgroupoptionmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-model-productvariantgroupoptionmodel/rvdwkpvm/section</a> )>	

## ProductVariantGroupOptionModel

Member	Type	Description
ColorCode	String	Used for ColorPicker type.
DisplayOrder	Integer	
ImageFile	String	Used for ImageSwatch type.
ImageUrl	String	Used for ImageSwatch type.
Name	String	
ProductDetail	ProductDetailModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productdetailmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productdetailmodel/rvdwkpvm/section</a> )	
ProductVariantGroupID	Integer	
ProductVariantGroupOptionID	Integer	Database object identifier.

## ProductVariantModel

Member	Type	Description
AllowableOrderQuantityList	List<Integer>	If variant can only be purchased in distinct quantities (e.g. 1, 3, 5), this list will contain the allowable quantity values.
AllowProductComparison	Boolean	Allow product to be compared with others.
BuyingGuide	String	Buying guide text.
BuyingGuideName	String	Override default name for the buying guide description.
CombinedPercentSavings	Decimal	The savings in percentage.
CombinedPercentSavingsWithTax	Decimal	The savings in percentage including taxes.
CombinedPrice	Decimal	Combined price includes cumulative prices from any bundled parts.
CombinedPriceWithTax	Decimal	Combined price including taxes.
CombinedPromotionPrice	Decimal?	Combined promotion price.
CombinedPromotionPriceWithTax	Decimal?	Combined promotion price including taxes.
CombinedSavings	Decimal	Combined savings.

CombinedSavingsWithTax	Decimal	Combined savings with tax.
CombinedSellingPrice	Decimal	Combined selling price.
CombinedSellingPriceWithTax	Decimal	Combined selling price including tax.
DefaultQuantity	Integer	
Depth	Decimal	Product depth in cm. Enter zero if not used.
DisplayOrder	Integer	Product sort order from smallest to largest number.
Distributor	DistributorModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributormodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-distributormodel/rvdwkpvm/section</a> )	
DistributorID	Integer?	Associate this variant to a distributor by its DistributorID. If you specify DistributorID, the DistributorKey will be ignored.
DistributorSKU	String	Distributor SKU number.
DownloadFileUrl	String	Link to the file if this variant has a downloadable resource.
DynamicFormCode	DynamicFormCodeModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformcodemodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformcodemodel/rvdwkpvm/section</a> )	Custom HTML or input form elements.
ExcludeBookingDates	List<DateTime>	
FAQ	String	FAQ text.

FAQName	String	Override default name for the FAQ description.
FormattedCombinedPercentSavings	String	Text representation of the combined percent savings in current culture and currency.
FormattedCombinedPrice	String	Text representation of the combined price in current culture and currency.
FormattedCombinedPromotionPrice	String	Text representation of the combined promotion price in current culture and currency.
FormattedCombinedSavings	String	Text representation of the combined savings in current culture and currency.
FormattedCombinedSellingPrice	String	Text representation of the combined selling price in current culture and currency.
FormattedMSRP	String	Text representation of the MSRP in current culture and currency.
FormattedPercentSavings	String	Text representation of the percent savings in current culture and currency.
FormattedPrice	String	Text representation of the price in current culture and currency.
FormattedPromotionPrice	String	Text representation of the promotion price in current culture and currency.

FormattedSavings	String	Text representation of the savings in current culture and currency.
FormattedSellingPrice	String	Text representation of the selling price in current culture and currency.
Galleries	List<GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )>	Gallery images belonging to this variant.
HasAcceptableInventory	Boolean	
HasFormFields	Boolean	
Height	Decimal	Product height in cm. Enter zero if not used.
Inventory	Integer?	Inventory level.
InventoryEmptyBehavior	ProductInventoryEmptyBehaviorType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productinventoryemptybehaviortype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productinventoryemptybehaviortype/rvdwkpvm/section</a> )	How product behaves when inventory is empty.
InventoryUnitType	InventoryUnitType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-inventoryunittype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-inventoryunittype/rvdwkpvm/section</a> )	Indicate how inventory is treated especially in the case of a booking product. For regular product, the unit type should be Constant.
IsCompared	Boolean	
MainBuyingGuide	String	Returns the buying guide description from the variant if available, otherwise from the product.



MainBuyingGuideName	String	Returns the buying guide name from the variant if available, otherwise from the product.
MainDetailedGalleries	List<GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )>	Returns the detailed gallery images from the variant if available, otherwise from the product.
MainDetailedGallery	GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )	Returns the first detailed gallery image from the variant if available otherwise from the product.
MainDisplayGalleries	List<GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )>	Returns the display gallery image from the variant if available otherwise from the product.
MainDisplayGallery	GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )	Returns the first display gallery image from the variant if available otherwise from the product.
MainDynamicFormCode	DynamicFormCodeModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformcodemodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-dynamicformcodemodel/rvdwkpvm/section</a> )	Returns the custom HTML or input form elements from the variant if available otherwise from the product.
MainFAQ	String	Returns the FAQ description from the variant if available, otherwise from the product.
MainFAQName	String	Returns the FAQ name from the variant if available, otherwise from the product.

MainOverview	String	Returns the overview description from the variant if available, otherwise from the product.
MainOverviewName	String	Returns the overview name from the variant if available, otherwise from the product.
MainProductAttributes	List<ProductAttributeModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributemodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributemodel/rvdwkpvm/section</a> )>	
MainSpecifications	String	Returns the specifications description from the variant if available, otherwise from the product.
MainSpecificationsName	String	Returns the specifications name from the variant if available, otherwise from the product.
MainSummary	String	Returns the summary description from the variant if available, otherwise from the product.
MainTerms	String	Returns the terms description from the variant if available, otherwise from the product.
MainTermsName	String	Returns the terms name from the variant if available, otherwise from the product.

MainThumbnailGallery	GalleryModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-gallerymodel/rvdwkpvm/section</a> )	Returns the first thumbnail gallery image from the variant if available otherwise from the product.
Manufacturer	ManufacturerModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-manufacturermodel/rvdwkpvm/section</a> )	
ManufacturerID	Integer?	Associate this variant to a manufacturer by its ManufacturerID. If you specify ManufacturerID, the ManufacturerKey will be ignored.
ManufacturerSKU	String	Manufacturer SKU number.
MaxBookingDate	DateTime?	
MaxBookingTime	TimeSpan?	
MaxOrderQuantity	Integer?	Maximum order quantity.
MetaDescription	String	Localized meta description.
MetaKeywords	String	Localized meta keywords.
MinBookingDate	DateTime?	
MinBookingTime	TimeSpan?	
MinOrderQuantity	Integer?	Minimum order quantity.
MSRP	Decimal?	Manufacturer suggested retail price.

MSRPWithTax	Decimal?	Manufacturer suggested retail price including tax.
Name	String	Product variant name.
Overview	String	Overview text.
OverviewName	String	Override default name for the overview description.
PercentSavings	Decimal	
PercentSavingsWithTax	Decimal	
Price	Decimal	
PriceText	String	Any text specified here will be shown to the customer instead of the actual price.
PriceWithTax	Decimal	
ProductCost	Decimal?	Cost of product.
Product	ProductModel	
ProductAttributes	List<ProductAttributeModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributemodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productattributemodel/rvdwkpvm/section</a> )>	
ProductComponents	List<ProductComponentModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productcomponentmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productcomponentmodel/rvdwkpvm/section</a> )>	
ProductDetail	ProductDetailModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productdetailmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productdetailmodel/rvdwkpvm/section</a> )	

ProductID	Integer	Reference the corresponding product by its ProductID. If you specify ProductID, the ProductKey will be ignored.
ProductVariantID	Integer	Database object identifier. This value must be specified when performing an update. Only this value is required when performing a delete action.
PromotionPrice	Decimal?	Promotion price.
PromotionPriceWithTax	Decimal?	Promotion price including tax.
Published	Boolean	Enable display of the product.
RecurringInterval	Integer	The recurring repeat interval for the RecurringIntervalType. Enter zero for non-recurring.
RecurringIntervalType	RecurringIntervalType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-recurringintervaltype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-recurringintervaltype/rvdwkpvm/section</a> )	
RecurringMaxRepeat	Integer?	The number of times to repeat the recurring order or leave blank to repeat perpetually.
RecurringMinRepeat	Integer?	The minimum number of times that must be repeated before allowing customers from cancelling future recurring orders.

RequiredProducts	List<RequiredProductModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-requiredproductmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-requiredproductmodel/rvdwkpvm/section</a> )>	
RequireHandling	Boolean	Product requires handling.
RequireShipping	Boolean	Product requires shipping.
RewardsPointsQualified	Integer	
SalesType	SalesType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salestype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salestype/rvdwkpvm/section</a> )	Determine if product can be purchased at the listed price or must be quoted first.
Savings	Decimal	
SavingsWithTax	Decimal	
SellingPrice	Decimal	The selling price including promotions.
SellingPriceWithTax	Decimal	The selling price including promotions and tax.
SKU	String	Product SKU
Specifications	String	Specifications text.
SpecificationsName	String	Override default name for the specifications description.
Summary	String	Summary text.
Terms	String	Terms text.
TermsName	String	Override default name for the terms description.

UniversalProductCode	String	Universal product code.
Weight	Decimal	Product weight in gram. Enter zero if not used.
Width	Decimal	Product width in cm. Enter zero if not used.

# RecurringIntervalType

Name	Value	Description
Day	1	
Week	2	
Month	3	
Year	4	



## RegistrationModel

Member	Type	Description
TabUrl	String	The absolute URL for the page.

## RequiredProductModel

Member	Type	Description
DeferDate	DateTime?	
DeferInterval	Integer	
DeferIntervalType	IntervalType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-intervaltype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-intervaltype/rvdwkpvm/section</a> )	
ProductVariant	ProductVariantModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section</a> )	
ProductVariantID	Integer	
Published	Boolean	
Quantity	Integer	
RequiredProductID	Integer	Database object identifier.

## SalesOrderDetailModel

Member	Type	Description
Amount	Decimal	
AmountWithTax	Decimal	Amount with tax.
BookingStartDate	DateTime?	
BookingStopDate	DateTime?	
CombinedAmount	Decimal	Combined amount includes sum of component part amounts in child sales order details.
CombinedAmountWithTax	Decimal	Combined amount with tax.
CombinedDiscountAmount	Decimal	Combined discount includes sum of component part discounts in child sales order details.
CombinedPrice	Decimal	Combined price includes sum of component part prices in child sales order details.
CombinedTotalAmountWithTax	Decimal	Combined total amount includes sum of component parts total amounts in child sales order details.
DiscountAmount	Decimal	
DynamicFormResult	Dictionary<string, List<string>>	Results from custom form fields.
FormattedBookingStartDate	String	Text representation of booking start date.

FormattedBookingStopDate	String	Text representation of booking stop date.
FormattedCombinedAmount	String	Text representation of combined amount in current culture and currency.
FormattedCombinedDiscountAmount	String	Text representation of combined discount amount in current culture and currency.
FormattedCombinedPrice	String	Text representation of combined price in current culture and currency.
FormattedCombinedTotalAmount	String	Text representation of combined total amount in current culture and currency.
FormattedDiscountAmount	String	Text representation of discount amount in current culture and currency.
FormattedPrice	String	Text representation of price in current culture and currency.
ParentSalesOrderDetailID	Integer?	Parent sales order detail database object identifier if this is a component part belonging to a bundled product.
PartQuantity	Integer	
Price	Decimal	
ProductName	String	
ProductVariant	ProductVariantModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-productvariantmodel/rvdwkpvm/section</a> )	
ProductVariantID	Integer	Product variant database object identifier.

ProductVariantName	String	
Quantity	Integer	
SalesOrderDetailID	Integer	Database object identifier.
ShippingStatus	ShippingStatusType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/shipping-status-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/shipping-status-types/rvdwkpvm/section</a> )	
Status	SalesOrderDetailStatusType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailstatustype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailstatustype/rvdwkpvm/section</a> )	
TotalTaxAmount	Decimal	

SalesOrderDetailStatusType

Name	Value	Description
Pending	1	
Ordered	2	
Processing	3	
Completed	4	
Quoted	9	

## SalesOrderModel

Member	Type	Description
BalanceDue	Decimal	
BillingCity	String	
BillingCompany	String	
BillingCountryCode	String	
BillingCountryName	String	
BillingEmail	String	
BillingFirstName	String	
BillingLastName	String	
BillingPhone	String	
BillingPostalCode	String	
BillingStreet	String	
BillingStreet1	String	
BillingStreet2	String	
BillingSubdivisionCode	String	
BillingSubdivisionName	String	
BusinessTaxNumber	String	
CouponCodes	String	
DynamicFormResult	Dictionary<String, List<String>>	Custom field results stored as a dictionary of key values pair.

FormattedBalanceDue	String	Text representation of balance due amount in current culture and currency.
FormattedOrderDate	String	Text representation of the order date in current culture.
FormattedRewardsPointsQualified	String	Text representation of qualified rewards point.
FormattedSubTotalAmount	String	Text representation of subtotal amount in current culture and currency.
FormattedTotalAmount	String	Text representation of total amount in current culture and currency.
FormattedTotalHandlingAmount	String	Text representation of total handling amount in current culture and currency.
FormattedTotalPaymentReceived	String	Text representation of total payment received in current culture and currency.



FormattedTotalSalesOrderDetailDiscountAmount	String	Text representation of total sales order detail discount amount in current culture and currency.
FormattedTotalSavingsAmount	String	Text representation of total savings amount in current culture and currency.
FormattedTotalShippingAmount	String	Text representation of total shipping amount in current culture and currency.
FormattedTotalTaxAmount	String	Text representation of total tax amount in current culture and currency.
HasQuotedProduct	Boolean	Determine if sales order contains products that must be quoted.
MainQuantity	Integer	Total quantity of items purchased excluding component parts.

MainSalesOrderDetails	List<SalesOrderDetailModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailmodel/rvdwkpvm/section</a> )>	List of sales order details excluding component parts.
OrderDate	DateTime	
OrderLocked	Boolean	Indicates if order should not allow editing items in the cart.
ParentSalesOrderID	Integer?	
PaymentTerm	PaymentTermType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymenttermtype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymenttermtype/rvdwkpvm/section</a> )?	Indicates if the order is paid by COD, Net30, etc.
PortalID	Integer	
PurchaseOrderNumber	String	
RequireHandling	Boolean	One or several items in the order requires handling.
RequireShipping	Boolean	One or several items in the order requires shipping.
RewardsPointsQualified	Integer	The number of rewards points qualified for this purchase.
SalesOrderDetails	List<SalesOrderDetailModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailmodel/rvdwkpvm/section</a> )>	
SalesOrderID	Integer	Database object identifier.

SalesOrderNumber	String	The public display sales order number.
SalesOrders	List<SalesOrderModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordermodel/rvdwkpvm/section</a> )>	
SalesPayments	List<SalesPaymentModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salespaymentmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salespaymentmodel/rvdwkpvm/section</a> )>	
SalesPaymentStatus	SalesPaymentStatusType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-payment-status-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-payment-status-types/rvdwkpvm/section</a> )	
ShippingCity	String	
ShippingCompany	String	
ShippingCountryCode	String	
ShippingCountryName	String	
ShippingEmail	String	
ShippingFirstName	String	
ShippingLastName	String	
ShippingMethodID	Integer?	
ShippingPhone	String	
ShippingPostalCode	String	
ShippingStatus	ShippingStatusType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/shipping-status-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/shipping-status-types/rvdwkpvm/section</a> )	
ShippingStreet	String	
ShippingStreet1	String	
ShippingStreet2	String	

ShippingSubdivisionCode	String	
ShippingSubdivisionName	String	
Status	SalesOrderStatusType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-order-status-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-order-status-types/rvdwkpvm/section</a> )	
SubTotalAmount	Decimal	Subtotal amount is the sum of all sales order detail amounts before taxes, shipping, etc.
SubTotalAmountWithTax	Decimal	Subtotal amount with tax.
TotalAmount	Decimal	Total amount includes all subtotal, handling, shipping, taxes, etc.
TotalHandlingAmount	Decimal	
TotalHandlingAmountWithTax	Decimal	
TotalPaymentReceived	Decimal	
TotalQuantity	Integer	Total number of items purchased.
TotalSalesOrderDetailDiscountAmount	Decimal	
TotalSavingsAmount	Decimal	
TotalShippingAmount	Decimal	Total shipping amount.
TotalShippingAmountWithTax	Decimal	Total shipping amount with tax.

TotalTaxAmount	Decimal	
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# SalesOrderSetModel

The Storefront supports the marketplace capability and product warehousing. Products sold by different sellers or reside in different warehouses must be recorded in different sales order objects. This separation allows each sales order to have different shipping origins, taxes and charges. The SalesOrderSetModel is a top level container for holding multiple SalesOrderModels (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordermodel/rvdwkpvm/section>) that may be active at the same time.

Member	Type	Description
BalanceDue	Decimal	
BillingCity	String	
BillingCompany	String	
BillingCountryCode	String	
BillingCountryName	String	
BillingEmail	String	
BillingFirstName	String	
BillingLastName	String	
BillingPhone	String	
BillingPostalCode	String	
BillingStreet	String	
BillingStreet1	String	
BillingStreet2	String	
BillingSubdivisionCode	String	
BillingSubdivisionName	String	
BusinessTaxNumber	String	
CouponCodes	String	

DynamicFormResult	Dictionary<String, List<String>>	Custom field results stored as a dictionary of key values pair.
FormattedBalanceConsidered	String	Text representation of the balance due amount that includes provisioned payments not yet applied in current culture and currency.
FormattedBalanceDue	String	Text representation of balance due amount in current culture and currency.
FormattedOrderDate	String	Text representation of the order date in current culture.
FormattedRewardsPointsQualified	String	Text representation of qualified rewards point.
FormattedSubTotalAmount	String	Text representation of subtotal amount in current culture and currency.
FormattedTotalAmount	String	Text representation of total amount in current culture and currency.

FormattedTotalHandlingAmount	String	Text representation of total handling amount in current culture and currency.
FormattedTotalPaymentConsidered	String	Text representation of total amount received and provisioned in current culture and currency.
FormattedTotalPaymentProvisioned	String	Text representation of total payment provisioned not yet applied in current culture and currency.
FormattedTotalPaymentReceived	String	Text representation of total payment received in current culture and currency.
FormattedTotalSalesOrderDetailDiscountAmount	String	Text representation of total sales order detail discount amount in current culture and currency.
FormattedTotalSavingsAmount	String	Text representation of total savings amount in current culture and currency.



FormattedTotalShippingAmount	String	Text representation of total shipping amount in current culture and currency.
FormattedTotalTaxAmount	String	Text representation of total tax amount in current culture and currency.
HasQuotedProduct	Boolean	Determine if sales order contains products that must be quoted.
MainQuantity	Integer	Total quantity of items purchased excluding component parts.
MainSalesOrderDetails	List<SalesOrderDetailModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailmodel/rvdwkpvm/section</a> )>	List of sales order details excluding component parts.
OrderDate	DateTime	
OrderLocked	Boolean	Indicates if order should not allow editing items in the cart.
PortalID	Integer	
PurchaseOrderNumber	String	

RequireHandling	Boolean	One or several items in the order requires handling.
RequireShipping	Boolean	One or several items in the order requires shipping.
RewardsPointsQualified	Integer	The number of rewards points qualified for this purchase.
SalesOrderDetails	List<SalesOrderDetailModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesorderdetailmodel/rvdwkpvm/section</a> )>	
SalesOrders	List<SalesOrderModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordermodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salesordermodel/rvdwkpvm/section</a> )>	
SalesPayments	List<SalesPaymentModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salespaymentmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-salespaymentmodel/rvdwkpvm/section</a> )>	
ShippingCity	String	
ShippingCompany	String	
ShippingCountryCode	String	
ShippingCountryName	String	
ShippingEmail	String	
ShippingFirstName	String	
ShippingLastName	String	
ShippingPhone	String	
ShippingPostalCode	String	
ShippingStreet	String	

ShippingStreet1	String	
ShippingStreet2	String	
ShippingSubdivisionCode	String	
ShippingSubdivisionName	String	
SubTotalAmount	Decimal	Subtotal amount is the sum of all sales order detail amounts before taxes, shipping, etc.
SubTotalAmountWithTax	Decimal	Subtotal amount with tax.
TotalAmount	Decimal	Total amount includes all subtotal, handling, shipping, taxes, etc.
TotalHandlingAmount	Decimal	
TotalHandlingAmountWithTax	Decimal	
TotalPaymentProvisioned	Decimal	Total payment provisioned that is not yet applied.
TotalPaymentReceived	Decimal	
TotalQuantity	Integer	Total number of items purchased.
TotalSalesOrderDetailDiscountAmount	Decimal	
TotalSavingsAmount	Decimal	
TotalShippingAmount	Decimal	Total shipping amount.

TotalShippingAmountWithTax	Decimal	Total shipping amount with tax.
TotalTaxAmount	Decimal	

# SalesPaymentModel

The SalesPaymentModel holds payments belonging to a SalesOrderModel.

Member	Type	Description
Amount	Decimal	
CreditCardHint	String	The last 4 digits of the credit card if payment is a credit card type.
FormattedAmount	String	Text representation of the amount in current culture and currency.
FormattedHint	String	Text representation merged from the payment or credit card hint.
PaymentHint	String	Hint from other types of payment method.
PaymentMethod	PaymentMethodType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodtype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodtype/rvdwkpvm/section</a> )	
SalesPaymentID	Integer	Object identifier.
VoucherHint	String	Voucher code hint if payment is a voucher type.

# SalesType

Name	Value	Description
Sale	1	Product price is known and is for sale.
Quote	2	Product price is unknown and must be quoted.

# SellerModel

Member	Type	Description
City	String	
CountryCode	String	
Description	String	
Email	String	
Name	String	
Phone	String	
PostalCode	String	
SellerID	Integer	
Street	String	
SubdivisionCode	String	

# ShoppingModel

Member	Type	Description
TabID	Integer	Database object identifier for the page.
TabUrl	String	The absolute URL for the page.



## UserAddressModel

Member	Type	Description
City	String	
Company	String	
CountryCode	String	
CountryName	String	
Email	String	
FirstName	String	
LastName	String	
Phone	String	
PostalCode	String	
Street	String	
SubdivisionCode	String	
SubdivisionName	String	
UserAddressID	Integer	

# UserModel

Member	Type	Description
DisplayName	String	
Email	String	
FirstName	String	
LastName	String	
UserID	Integer	

## UserPaymentModel

Member	Type	Description
CreditCardExpiryMonth	Integer?	
CreditCardExpiryYear	Integer?	
CreditCardHint	String	
FormattedHint	String	
PaymentGatewayPaymentFormPost	String	
PaymentHint	String	
PaymentMethod	PaymentMethodType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodtype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-paymentmethodtype/rvdwkpvm/section</a> )	
PaymentMethodName	String	
PaymentNumber	String	
ProfileNumber	String	
UserPaymentGUID	GUID	
UserPaymentID	Integer	
VoucherHint	String	

# ValidationResultModel

Member	Type	Description
Message	String	

## WishListModel

Member	Type	Description
CreateDate	DateTime	
Description	String	
EventCity	String	
EventCountryCode	String	
EventDate	DateTime?	
EventSubdivisionCode	String	
Name	String	
PersonalMessage	String	
Published	Boolean	
Registrant2FirstName	String	
Registrant2LastName	String	
RegistrantFirstName	String	
RegistrantLastName	String	
ShippingCity	String	
ShippingCompany	String	
ShippingCountryCode	String	
ShippingFirstName	String	
ShippingLastName	String	
ShippingPostalCode	String	
ShippingStreet	String	

ShippingSubdivisionCode	String	
UserID	Integer	
WishListGUID	Guid	
WishListID	Integer	
WishListType	WishListType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlisttype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlisttype/rvdwkpvm/section</a> )	

# WishListType

Name	Value	Description
Baby	2	
Birthday	3	
Other	1	
Wedding	4	

## WishListViewModel

Member	Type	Description
Cart	CartModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-cartmodel/rvdwkpvm/section</a> )	
Checkout	CheckoutModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-checkoutmodel/rvdwkpvm/section</a> )	
SearchQuery	String	
SearchWishListType	WishListType ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlisttype/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlisttype/rvdwkpvm/section</a> )	
ValidationResults	List<ValidationResultModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-validationresultmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-validationresultmodel/rvdwkpvm/section</a> )>	
WishList	WishListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlistmodel/rvdwkpvm/section</a> )	The current selected wish list.
WishLists	List<WishListModel ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlistmodel/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/design-models-wishlistmodel/rvdwkpvm/section</a> )>	The wish lists found by search.



## Shopping Cart Flow

The typical checkout flow consists of the following steps. The flow determines how and when various price, discount, shipping and tax calculations are performed base on the available data collected from the user (e.g. Shipping cost can only be calculated after user supplies his shipping address during checkout. Similarly, taxes can only be calculated after user supplies his billing address).

# Customer initiates checkout

The following steps below are typical of how a customer progresses from browsing to completing a purchase. Every business is different and the actual steps may vary.

1. System generates list of available products.
2. Customer views products page.
3. Customer select product of interest.
4. System generates product detail, calculates price, apply any promotion and verifies product availability.
5. Customer adds product to cart.
6. System verifies order and approximates sub-total before shipping/handling cost and taxes.
7. Customer proceeds to checkout.
8. System prompts customer to login, register or checkout as guest user.
9. Customer enters billing, shipping information.
10. System determines the available shipping methods.
11. Customer selects the desired shipping method.
12. Customer enters coupon.
13. System verifies order; apply discounts, shipping cost, handling cost and taxes before calculating final total.
14. Customer reviews final total and enters voucher and payment information.
15. Customer places order.
16. System validates order. If order is invalid, customer is redirected back to checkout page.
17. System processes payment. If payment fails, customer is redirected back to checkout page.
18. System saves the order and payment information.

**Order Status** = Ordered

**Payment Status** = Pending

**Shipping Status** = Not Required/Not Shipped

For a purchase order, the Order Status will be set to Pending since no payment is actually collected.

19. System decrements product & coupon inventory. For a purchase order, the product and coupon inventories are unchanged since no actual order has taken place.
20. If the **Configuration > Checkout** has the **Run action on checkout** option selected, the system will automatically run the place order action rule (e.g. grant security role, execute Web request).
21. System generates confirmation details and sends out notification to customer and Storefront administrator.
22. Customer views the confirmation page and receives receipt.

# Merchant fulfills new order

The following steps below are typical of how the store operates. Every business is different and your own steps may vary. You can also automate many of these tasks by using the action rules to automatically change statuses immediately after checkout. Please see [How to force order and payment status \(https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section\)](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section) for more information.

1. Merchant reviews order and updates progress so customers can see that the order is being processed. You can skip this step if your order to fulfillment steps are very quick.

**Order Status** = Processing

2. Merchant verifies payment for fraud and marks payment as completed if received.

**Payment Status** = Paid

3. Merchant runs place order action (e.g. grant security role, execute Web request). This step is not required if the **Configuration > Checkout** has the **Run action on checkout** option selected, which automatically runs the action rule during customer checkout. If you're selling vouchers and issuing access rights, you want to issue them now. You can also award loyalty points to your customer at this stage. You may skip this step if you don't normally have any actions to perform.
4. If product requires shipping, merchant ships product once paid. In the case of Cash on Delivery (C.O.D), the product may be shipped first before receiving payment. If you have a tracking number from your post office, you may enter it with the order information so that your customers can also view it for their own follow-up. You should capture any authorized payment if not yet done so.

**Shipping Status** = Shipped

5. Merchant completes order. Any downloadable product (virtual goods) will automatically become available when order is marked Completed or payment is Paid.

**Order Status** = Completed

## Merchant fulfills new quote

The following steps below are typical of how the store operates. Every business is different and your own steps may vary.

1. Merchant reviews new quote that is recently placed by customer for the desired products. Typically in a quote, the prices are not yet finalized. The merchant updates the price amounts of each order detail line items to reflect the prices he is willing to sell as needed.
2. Merchant changes the order status to indicate the quote is now priced in, but is still unpaid.

**Order Status** = Ordered

**Payment Status** = Incomplete

3. Merchant clicks on button to send the invoice by email to the customer. The invoice will contain the updated prices and a link for the customer to complete the payment via the **Manage Order** module. Please make sure this module is already present somewhere on a page on your site.

The customer may contact the merchant to negotiate the prices and the merchant may update the order with new prices as often as needed, repeating the steps above until satisfied.

4. Once the customer has made the payment, an email is sent to notify the merchant of payment received. The merchant proceeds to process the order in the same steps as a normal order flow. Please see Merchant fulfills new order (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/merchant-fulfills-new-order/rvdwkpvm/section>) for more information.

# Merchant fulfills recurring order

The following steps below are typical of how the store operates. Every business is different and your own steps may vary. You can also automate many of these tasks by using the action rules to automatically change statuses immediately after checkout. Please see [How to force order and payment status \(https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section\)](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section) for more information.

1. When a previously saved order is due to recur, the system generates a new order for customer. When the preferred payment uses credit card, the system will automatically attempt to charge the card and upon success will decrement the inventory. Also, if the **Configuration > Checkout** has the **Run action on checkout** option selected, the system will automatically run the place order action rule. In all other cases where the system is not able to automatically collect the payment successfully (e.g. wire transfer, cash payment, credit card declined, etc.), the inventory is not adjusted. Discounts, shipping, handling costs and taxes are automatically applied to order.

Because recurring order normally repeats over a long period of time and many factors can affect the validity of the order (e.g. customer credit card expired, product features changed, inventory is empty, changes to available shipping methods, changes to business and legal requirements, etc.), it is the responsibility of the merchant to verify the new order is valid and issue the payment collection manually as needed.

When a payment is successfully paid or the total amount is \$0.00, the system will mark the following statuses.

**Order Status** = Ordered

**Payment Status** = Pending

**Shipping Status** = Not Required/Not Shipped

If the payment failed and the total amount is greater than \$0.00, the system will mark the following statuses

**Order Status** = Ordered

**Payment Status** = Incomplete

**Shipping Status** = Not Required/Not Shipped

If the Payment Status is Incomplete, an **invoice** is sent out to request for payment, otherwise a **receipt** is sent out.

2. Merchant reviews order and marks order as valid. You can skip this step if your order to fulfillment steps are very quick.

**Order Status** = Processing

3. Merchant decrements product inventory level. If payment was automatically collected successfully, you don't need to adjust inventory level.

4. Merchant creates a new payment and collects the money if payment is not already collected. In the case of credit card, the system will attempt to collect the payment automatically.

**Payment Status** = Paid

5. Merchant runs place order actions (e.g. grant security role, execute Web request). This step is not required if the **Configuration > Checkout** has the **Run action on checkout** option selected, which automatically runs the action

rule on recurring order creation.

6. If product requires shipping, administrator ships product once paid. In the case of Cash on Delivery (C.O.D), the product may be shipped first before receiving payment.

**Shipping Status** = Shipped

7. Merchant closes order. Any downloadable product (virtual goods) will automatically become available when order is marked Completed or payment is Paid.

**Order Status** = Completed

# Merchant cancels bad order

The following steps below are typical of how the store operates. Every business is different and your own steps may vary. You can also automate many of these tasks by using the action rules to automatically change statuses immediately after checkout. Please see [How to force order and payment status \(https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section\)](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section) for more information.

1. Merchant reviews order and updates progress.

**Order Status** = Processing

2. If payment failed or money is never received, the merchant cancels payment.

**Payment Status** = Cancelled/Declined

If payment is received, you want to select that payment and perform a refund. Please see [How to refund payment \(https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-refund-payment/rvdwkpvm/section\)](https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-refund-payment/rvdwkpvm/section) for more information.

**Payment Status** = Refunded

3. Merchant increments product/coupon inventory and undo any custom action (e.g. revoke security role, etc.). You should also revoke any issued voucher or rights.
4. Merchant closes order.

**Order Status** = Cancelled/Declined



# Understanding payment risk

By default, for your security and best practices, Revindex Storefront will mark the payment as "Pending" to encourage the store admin to manually verify each order for fraud, validity of the order, etc. There is no confusion between paid and unpaid. "Pending" status simply means the payment is received but should be verified for correctness. If the credit card failed to charge in the first place, the order would go into the "Incomplete" status. If your site receives very few fraud depending on what you sell, you can create a Place order action rule to mark all orders as "Paid" immediately. A place order action rule only runs when the order is completed (payment received and customer got all the way to the confirmation page). Please see How to force order and payment status (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-force-order-and-payment-status/rvdwkpvm/section>) for more information.

Certain payment gateways such as PayPal will report payment approved but still places it on hold internally for international payments, payment received in another currency or when a high fraud risk has been detected. In this case, the money is authorized but not yet deposited and the merchant needs to log into PayPal to manually confirm the payment for the money to be deposited into the account. If you didn't confirm the payment in PayPal, you may find out days later that the money never got deposited or the customer cancelled the payment in between while your product has shipped.

Another example, if you're accepting credit card on your site, you may have fraud and this is indicated by the AVS response code. AVS stands for Address Verification System and can report street address match, postal code match only or full match. The credit card payment gateway will always approve the transaction, but in reality, the store owner needs to decide if the AVS result is acceptable for your store depending on what you sell, the amount of risk you are willing to tolerate. For example, some shops will reject the order if the AVS reports street address match only and not postal code match to avoid high number of charge backs.

Yet, another possibility is your site charged the order to a recently stolen credit card and the payment gateway approved the order. Usually the cardholder will report the card as stolen within 24 hours and the funds will be reversed. If your business suffers from high risk of fraud, you may want to wait a fixed amount of time prior to shipping out products.

Revindex Storefront is built with security in mind to encourage best practices but you are certainly welcome to automate certain steps where it makes sense for your kind of business. Please see Fraud risk (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/fraud-risk/rvdwkpvm/section>) for more information on using fraud score to manage your business risk.

## How to force order and payment status

If your business has a low risk for fraud, you may want to automatically mark all orders as "Completed" and payments as "Paid". Please see the topic on Understanding payment risk (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/understanding-payment-risk/rvdwkpvm/section>) for more information on fraud and reversible payments.

To do so, you can simply create a **Place order action rule** under **Configuration > Checkout** menu and set it to automatically mark all order status as "Completed" and payment status as "Paid". You can also use the custom rule to only set the statuses when certain conditions are met (e.g. update status only for Credit card payments and not by Wire transfer or large amounts exceeding \$500).

The screenshot displays the 'Checkout' configuration page in the Revindex Storefront, specifically the 'Action' tab. The page has a navigation bar at the top with links to Dashboard, Catalog, Marketing, People, Sales, Configuration, and Help. Below the navigation bar, the 'Checkout' section is active, with sub-tabs for General, Availability, Custom field, and Action. The 'Action' tab is selected, showing the 'Run action on checkout' checkbox checked. The 'Place order action rule' dropdown is set to 'Basic'. Below this, there is an 'Actions' section with a table header showing 'Type' and 'Description'. The 'Type' is 'Set data'. An 'Add new' button is visible. The 'Action type' section has four radio buttons: 'Grant role', 'Revoke role', 'Set data' (selected), and 'Web request'. Below this, there are four dropdown menus for setting data: 'Order status' (set to 'Completed'), 'Order payment status' (set to 'Paid'), 'Order shipping status' (set to 'No change'), and 'Order detail shipping status' (set to 'No change').

Please note if you sell recurring products, you should employ the Custom rule in your **Place order action** to test for successful payment prior to setting the order as "Completed". In a typical checkout flow when the credit card declines, the customer is prompted to retry entering his credit card until it succeeds therefore there is no need to test for successful payment since the checkout form handles it for you. A recurring order is different than a normal checkout because the process is automatic and happens behind the scene. The Storefront creates the recurring order even if the credit card declined since there is no way to prompt the user to retry. As such, it's important to test for successful payment in your custom rule before setting the order status as "Completed". For example, you can use an `xls:if` instruction to test for successful payment prior to executing the other instructions. Please see Payment Gateway Response Codes (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-gateway-response-codes/rvdwkpvm/section>) for more information.

## Page action

You can add a product to wish list, cart or checkout immediately by triggering an action over URL using the following query string name value pair on any page where the **Product Detail** module control is hosted. This is useful if, for example, you need to create a hyperlink that immediately sends the customer to checkout.

Tell search bots not to index this link by adding the rel="nofollow" attribute to your anchor.

Name	Value	Required	Description
rvdspact	1	Yes	Perform "Add to Cart" action.
	2	Yes	Perform "Buy Now" action.
	3	Yes	Perform "Add to wish list" action.
rvdsfpvqty	A valid quantity value	No	The product quantity to add. If not specified, the default quantity for the product will be used.
rvdsfpid	A valid product ID	Yes	The ProductID of the product.
rvdsfpvid	A valid product variant ID	No	The ProductVariantID of the product variant to add. If not specified, the default product variant will be triggered by the action.
rvdsfbkstartdate	A valid start date for a booking product.	No	The booking start date and time expressed according to the portal time zone.
rvdsfbkstopdate	A valid stop date for a booking product.	No	The booking stop date and time expressed according to the portal time zone.
rvdsfdfr	Dynamic form result for custom fields.  Agree=true&Name=John	No	The dynamic form result is a set of values used to populate the custom fields for a product or variant. Individual set of values should be delimited using the querystring format and escaped as needed.
rvdsfppartids	List of ProductPartID  13 89 56	No	List of ProductPartID separated by the pipe " " delimiter used to indicate the product parts participating in a bundled product.

rvdsfppartsels	True/false (1/0) to indicate which respective product part is selected.  1 0 1	No	List of boolean values separated by the pipe " " delimiter to indicate which participating product part is selected in a bundled product. To use the default selection, leave the value empty for that respective product part.
rvdsfppartqtys	The quantity number for the respective product part.  1  2	No	List of integers separated by the pipe " " delimited to indicate the quantity set for the participating product part in a bundled product. To use a default quantity, leave the value empty for that respective product part.
returnurl	Any URL	No	Redirect user back to the specified URL after adding a product to cart or to a wish list. You can use this parameter to add multiple products by chaining the different URLs together.
rvdsfrcart	1	No	Reset shopping cart to empty before adding product to cart.

# Examples

Below are several examples you may find helpful.

1. To add a single product to cart with a quantity of 1:

```
1 | http://a.com/product/tabid/138/rvdsfpid/product-1/rvdspact/1/rvdsfpvqty/1/default.aspx
```

2. To reset the cart before adding a single product with a quantity of 2:

```
1 | http://a.com/product/tabid/138/rvdsfpid/product-1/rvdspact/1/rvdsfpvqty/2/rvdsfrcart/1/default.aspx
```

3. To add a single specific variant with a quantity of 5:

```
1 | http://a.com/product/tabid/138/rvdsfpid/product-1/rvdspact/1/rvdsfpvqty/5/rvdsfpvid/3/default.aspx
```

4. You can also pass the parameters using normal querystring if your site is not configured with friendly URL:

```
1 | http://a.com/default.aspx?tabid=138&rvdsfpid=1&rvdspact=1&rvdsfpvqty=1&rvdsfpvid=3
```

5. To add a single product and populate the custom fields (dynamic form), you need to pass the name & value pairs through the **rvdsfdfr** parameter. Suppose you created 2 custom fields for your product with the IDs "MyPrice" and "MyDesc".

You start by crafting your custom fields parameters as if it's a querystring:

```
1 | MyPrice=10.00&MyDesc=Hello
```

Then you encode it (<http://www.revindex.com/Resources/Tools/URLEncoderDecoder.aspx>) and append it to the **rvdsfdfr** parameter so you end up with a URL like this:

```
1 | http://a.com/default.aspx?tabid=138&rvdsfpid=1&rvdspact=1&rvdsfpvqty=1&rvdsfpvid=3&rvdsfdfr=MyPrice%3D10.00%26MyDesc%3DHello
```

6. To add multiple products, you can chain a new URL using the **returnurl** parameter. You can chain as many URLs as you like (up to the limitation of your browser, usually 2000 characters). You must remember to encode the URL (<http://www.revindex.com/Resources/Tools/URLEncoderDecoder.aspx>) that you're chaining to so that any special characters don't conflict. If you're chaining multiple URLs, you need encode over the previously encoded URL (even if it's already encoded).

```
1 | http://a.com/default.aspx?tabid=138&rvdsfpid=1&rvdspact=1&rvdsfpvqty=1&rvdsfpvid=3&returnurl=http%3A%2F%2Fa.com%2Fdefault.aspx%3Ftabid%3D138%26rvdsfpid%3D2%26rvdspact%3D1%26rvdsfpvqty%3D1
```



# Import and Export

The Storefront has a powerful import and export capability allowing you to bulk create almost every type of catalog and sales objects (category, manufacturer, product, variant, voucher, etc.).

The screenshot shows the 'Import catalog' form. At the top, there is a navigation bar with links: Dashboard, Catalog, Marketing, People, Sales, Configuration, and Help. Below the navigation bar, the title 'Import catalog' is displayed. A yellow warning box states: 'Import is a bulk operation that can overwrite a large amount of data permanently. Please ensure you have taken a full backup before importing.' The form has a 'General' tab selected. The 'Import to:' dropdown is set to 'Category'. The 'Input:' section has two radio buttons: 'Upload' (selected) and 'Server'. The 'File:' section has a 'Choose File' button. The 'Column delimiter:' dropdown is set to 'Comma'. At the bottom, there are 'Import' and 'Cancel' buttons.

You can even export out data to a friendly CSV file that you can then edit using Excel or Notepad and import back into the Storefront to perform bulk updates or deletes.

The screenshot shows the 'Export catalog' form. At the top, there is a navigation bar with links: Dashboard, Catalog, Marketing, People, Sales, Configuration, and Help. Below the navigation bar, the title 'Export catalog' is displayed. The form has a 'General' tab selected. The 'Export from:' dropdown is set to 'Category'. The 'Output:' section has two radio buttons: 'Download' (selected) and 'Server'. The 'Filename:' text field contains 'Category.en-US.csv'. The 'Column delimiter:' dropdown is set to 'Comma'. At the bottom, there are 'Export' and 'Cancel' buttons.

The screenshot shows the 'Category.en-US (1).csv' file opened in Microsoft Excel. The file contains a CSV table with the following data:

	Act	CategoryID	CategoryKey	CreateDate	Availability	Description	DisplayOrder	DisplayTemplate	Extension	MetaDescription	MetaKeywords	Name
1	u	1	ff969e40-0e2f-49e6-9d2	10/3/2009 9:49		Some text here...	1					Arts
2	u	2	f00c0150-bb76-4c1e-a62	10/3/2009 9:49		This release is a ...	0			bla	Bla	Business





# Overview

The import procedure accepts delimited data files (CSV delimited using either a comma, pipe, tab or semicolon) that matches the specification in the map file. The first row must contain the header row with the column names. The actual column ordering may vary. It's recommended to enclose all column data in double quotes (e.g. "Apple iPad" or "149.99") to escape any delimiter characters present in the text.

CSV files are processed row by row from top to bottom. For new insertions, if you have any parent child dependency, you should ensure the parent's row appears before the child's row. The row sequence is not needed for updates or deletes. For example, the "Laptop" category has a parent category called "Computers". If you're inserting both categories at once, the "Computers" row should appear before the "Laptop" row. Similarly, you cannot insert product variants if the product does not yet exist since product variant has a dependency on the product.

## Map File

The import routine uses a mapping file to determine the delimiter character and map the actual property name with your column name. In addition, the mapping file can accept default values for insertions. The map file is a simple XML that you can edit to suit your purpose.

```
1 <map delimiter=",">
2   <prop name="Act" col="Act" default="u" />
3   <prop name="ProductID" col="ProductID" />
4   <prop name="Published" col="Published" default="True" />
5   ...
6 </map>
7
```

You should not delete any lines from the map file. Instead you can modify the attribute values according to the notes below:

- The **delimiter** attribute specifies the character delimiter to use. This should be a single character normally a comma, semi-colon, pipe or tab.
- The **name** attribute is the entity property name and should not be changed.
- The **col** attribute should match your actual column name in your CSV file.
- The **default** value is the value that should be used for insertion if the data column is not present in your CSV file.

## Action

The actual type of operation performed by the import routine depends on the action specified in the **Act** column (Insert, Update, Delete). If the Act column is not provided, the system will use the default action specified in the map file. In your CSV file, you can have a few rows that insert, followed by other rows that update or delete as long as those actions are allowed by that entity type. See each entity type for the available actions.

## Columns

Most of the columns map directly to the same fields you find the Storefront admin interface. Therefore, it's good idea to start by creating a few sample entries in your Storefront to understand how the data is being used and export out the file to see what the actual data looks like

For insert actions, your import file should include all the columns. If a column is not provided, it will use the default value in the map file, if available.

For update actions, you need to provide the object identifier or the object key if available. If a data column is not provided, the property value of the object in question will be unchanged where it makes sense.

For delete actions, you need to provide the object identifier or the object key if available.

## Object Identifier and Keys

When inserting new data, you can leave the database object identifier blank (e.g. ProductID) as it will be automatically generated by your database. However, when you perform an update or delete action, you need to make sure the database object identifier or key is specified. It is good practice to always export and use the latest data before updating because the data may have changed by another user from the Storefront administration page or automatically changed by the system (e.g. the product variant inventory count may have decreased from customer purchases).

Object keys are available for many entities such as category, product, manufacturer, etc. that you can use in place of object identifiers to reference related objects by their unique key rather than with the database generated object identifier. For example, you can name your product key "apple-ipad" to make it easier to recall when you need import product categories rather than referencing by its identifier number "831". To display the object keys in the merchant interface, you must first enable the **Show object key** feature under **Configuration > General**.

## Language Localization

If your site operates in multiple languages, the data exported out or being imported into depends on the currently viewed page language. For example, if you're browsing your site in English (United States), any localizable string value in the CSV file will be treated in the en-US locale. If you later switch over to French (France), any localizable string value in the CSV file will be treated in the fr-FR locale.

## Validating Errors

During import, when possible, the Storefront will perform a series of validation row by row and will automatically rollback the entire data changes if any incorrect data is detected to protect the integrity of your system. Even with the automatic validation and transaction rollback, we still recommend that you perform a complete backup of your system before performing any import.

## Limitations

Please note that Web applications are limited by network, CPU and allowed memory consumption. When importing large amount of data, it is recommended to run multiple smaller imports (e.g. import 10,000 records at a time instead of 100,000 records at once).

## Google Spreadsheets

We recommend using Google sheets (<https://docs.google.com/spreadsheets>) to edit your CSV file. It's free and is hosted online with nothing to install. Once you're done editing, you can download it back as CSV file.

1. Start a blank spreadsheet.
2. Click on **File > Import**.
3. Choose the **Upload** tab and select the file from your computer.
4. Set the Separator character = comma
5. Set the Convert text to numbers and date = No

6. Click **Import**.

## Microsoft Excel

In most cases, you can simply double click the CSV file you exported to open it in Excel for editing. Please note, however, that Excel by default will attempt to convert numbers into its own native format. This may present a problem for fields like SKU that is normally a text field. For example, if your SKU values consist of only long numbers such as "12231231243", Excel will convert it to a number format and it will end up showing on your screen as "1.22E+10". The proper way to open a CSV file is to start with a blank Excel spreadsheet and perform a data import.

1. Open a new blank spreadsheet.
2. Under the Excel's Data tab, click on the **From Text** button
3. Select your CSV file to import
4. Choose **Delimited** file type and **Start Import at row = 1** and **File origin = Unicode (UTF-8)**. Click **Next**.
5. Select **Comma** as your only delimiter (deselect other delimiter types) and **Text qualifier = "** (double-quote) and click **Next**.
6. In the Data preview, use the SHIFT key to select all columns and set the **Column data format = Text**.
7. Click **Finish** on the next screen.
8. Place the imported data on your first cell.

# Data Types

The import/export uses the following data type convention in order to correctly return and consume the import file.

Data Type	Description	Valid Values
Boolean	A logical boolean.	"True" or "False" (without the quotes)
Byte	A Base64 encoded string of the byte array data.	YTM0NZomIzI2OTsmlzM0NTueYQ==
DateTime	A valid date with time component.	2001-01-01T12:00:00
Decimal	A numeric value that can contain a decimal point (x.xx). The decimal separator must be a dot point separator regardless of culture.	12.49
Double	A numeric value that can contain decimal point (x.xx). The decimal separator must be a dot point separator regardless of culture.	3289.3243
GUID	Globally unique identifier.	4F43B5CD-6817-4a64-9B32-640076F2A3A6
Integer	A 32-bit numeric value without decimals.	12345
Long	A 64-bit numeric value without decimals.	432432483244
String	Any text value.	"Hello world" (without the quotes)
TimeSpan	A valid time component.	22:00:00
XML	XML data.	Any valid XML data.
XML Code	XML data containing a "code" element with a "version" and "type" attribute. The enclosed value is the actual formula.	<code version="1.0" type="aspnetmarkup">...</code>
XML Locale	XML element named "locale" with any number of culture codes as attributes to hold the localized string.	<locale en-US="Hello" fr-FR="Bonjour" />
XML Rule	XML data containing a "rule" element with a "version" and "type" attribute. The enclosed value is the actual formula.	<rule version="1.0" type="xslt">...</rule>

# Entities

The Storefront supports importing and exporting most of the catalog entities and some sales order entities allowing you to bulk insert, update and delete data to many aspects of your store quickly and easily. Please note certain entities cannot perform update actions, but can achieve similar results using delete, followed by a new insert action.

# Category

To import/export categories, go to **Catalog > Categories** from the Storefront module menu. Click on the **Import** or **Export** link.

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	u
CategoryID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action if the CategoryKey is not provided.	12
CategoryKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID. If you don't specify a value, the system will generate a unique key for you during insertion. This key can be used to lookup the object if the ProductCategoryID is not specified.	business-finance
AvailabilityRule	XML Rule	No	The rule to describe the conditions when the category can be shown.	
CreateDate	DateTime	No		
Description	String	No	Category description.	Buy the latest books
DisplayOrder	Integer	Yes	Sort display order from smallest to largest number.	1000
DisplayTemplate	String	No	Custom display template name.	Custom12
Extension	XML	No	Extra data in XML string.	<data> <misc>True</misc> </data>
MetaDescription	String	No	Meta description.	Popular books, magazines
MetaKeywords	String	No	Meta keywords.	Books, magazines
Name	String	Yes	Category name.	Books

PageTitle	String	No	Page title.	Popular books
ParentCategoryID	Integer	No	For sub-category, reference to a parent object by its CategoryID. If you specify ParentCategoryID, the ParentCategoryKey will be ignored.	10
ParentCategoryKey	String	No	For sub-category, reference to a parent object by its CategoryKey instead of its CategoryID. If you specify ParentCategoryID, the ParentCategoryKey will be ignored.	business
Published	Boolean	Yes	Enable display of the category.	True
UrlName	String	No	Name to appear in URL for SEO purposes.	Popular books
UpdateDate	DateTime	No		

# Distributor

To import/export distributors, go to **Catalog > Distributors** from the Storefront module menu. Click on the **Import** or **Export** link.

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	u
DistributorID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action if the DistributorKey is not provided.	12
DistributorKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID. If you don't specify a value, the system will generate a unique key for you during insertion. This key can be used to lookup the object if the DistributorID is not specified.	allied
CreateDate	DateTime	No		
Description	String	No	Short description.	
DisplayOrder	Integer	Yes	Sort display order from smallest to largest number.	1000
DisplayTemplate	String	No	Custom display template name.	Custom12
Email	String	No		
Extension	XML	No	Extra data in XML string.	<data> <misc>True</misc> </data>
MetaDescription	String	No	Meta description.	Popular books, magazines
MetaKeywords	String	No	Meta keywords.	Books, magazines
Name	String	Yes	Distributor name.	Allied
PageTitle	String	No	Page title.	
Phone	String	No		



Published	Boolean	Yes	Enable display of the category.	True
UpdateDate	DateTime	No		

# Gallery

To import/export gallery images, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. Then select "Gallery". You must first upload the physical image files to a temporary staging folder under your portal root before starting the import procedure. After running the import, you can remove the image files you had uploaded to the temporary folder.

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	i
GalleryID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action.	9
AlternateText	String	No	SEO alternate text for the image.	Popular mechanics.
CategoryID	Integer	Yes/No	Associate this gallery to the Category object by its CategoryID. If you specify the CategoryID, the CategoryKey will be ignored.	
CategoryKey	String	Yes/No	Associate this gallery to the Category object by its CategoryKey. If you specify the CategoryID, the CategoryKey will be ignored.	
CreateDate	DateTime	No		
DisplayOrder	Integer	Yes	Gallery sort order from smallest to largest number.	1000
Format	Integer	Yes	Detailed = 1, Display = 2, Thumbnail = 3	2
ProductID	Integer	Yes/No	Associate this gallery to a product by its ProductID. If you specify ProductID, the ProductKey will be ignored.	1
ProductKey	String	Yes/No	Associate this gallery to a product by its ProductKey. If you specify ProductID, the ProductKey will be ignored.	
ProductVariantID	Integer	Yes/No	Associate this gallery to a product variant by its ProductVariantID. If you specify ProductVariantID, the ProductVariantKey will be ignored.	1

ProductVariantKey	String	Yes/No	Associate this gallery to a product variant by its ProductVariantKey. If you specify ProductVariantID, the ProductVariantKey will be ignored.	
StageMediaFile	String	Yes	The file path of the image is relative to the portal root. Do not specify the path to the portals folder (e.g. "portals\0")	Temp\1.jpg
UpdateDate	DateTime	No		

# Manufacturer

To import/export manufacturer, go to **Catalog > Manufacturers** from the Storefront module menu. Click on the **Import** or **Export** link.

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	u
ManufacturerID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action if the ManufacturerKey is not provided.	12
ManufacturerKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID. If you don't specify a value, the system will generate a unique key for you during insertion. This key can be used to lookup the object if the ManufacturerID is not specified.	toyota
CreateDate	DateTime	No		
Description	String	No	Short description.	
DisplayOrder	Integer	Yes	Sort display order from smallest to largest number.	1000
DisplayTemplate	String	No	Custom display template name.	Custom12
Email	String	No		
Extension	XML	No	Extra data in XML string.	<data> <misc>True</misc> </data>
MetaDescription	String	No	Meta description.	Makes cars and trucks
MetaKeywords	String	No	Meta keywords.	cars, suv, trucks
Name	String	Yes	Manufacturer name.	Toyota
PageTitle	String	No	Page title.	
Phone	String	No		

Published	Boolean	Yes	Enable display of the category.	True
UpdateDate	DateTime	No		

# Product

To import/export products, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. A product consists of at least one or more product variants; therefore, you should also import the product variant after you are done.

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	u
ProductID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action if the ProductKey is not provided.	12
ProductKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID. If you don't specify a value, the system will generate a unique key for you during insertion. This key can be used to lookup the object if the ProductID is not specified.	apple-ipad
AllowInternetOrder	Boolean	Yes	Allow purchase online.	True
AllowPhoneOrder	Boolean	Yes	Allow phone order.	False
AllowProductReview	Boolean	Yes	Allow customers to post reviews and ratings.	True
AvailabilityRule	XML Rule	No	The rule to describe the conditions when the product can be purchased.	
BuyingGuide	String	No	Buying guide text.	
BuyingGuideName	String	No	Override default name for the buying guide description.	
CreateDate	DateTime	No		
DisplayOrder	Integer	Yes	Product sort order from smallest to largest number.	1000
DisplayTemplate	String	No	Custom display template name.	Custom12
DynamicFormCode	XML Code	No	Custom HTML or input form elements.	

Extension	XML	No	Extra data in XML string.	<data> <misc>True</misc> </data>
FAQ	String	No	FAQ text.	
FAQName	String	No	Override default name for the FAQ description.	
Featured	Boolean	Yes	Indicate if product is “featured” and should be displayed on product list module control even if no category is selected.	False
MetaDescription	String	No	Meta description.	Popular mechanics
MetaKeywords	String	No	Meta keywords.	mechanics, engineers
Name	String	Yes	Product name.	Popular Mechanics
Overview	String	No	Overview text.	
OverviewName	String	No	Override default name for the overview description.	
PageTitle	String	No	Page title.	Popular books
ProductDetailUrl	String	No	Specify a custom product detail page for this product or set to empty or null to use the default product detail page. Enter a valid Tab ID number for the page.	
ProductType	Integer	Yes	Regular = 1	1
Published	Boolean	Yes	Enable display of the product.	True
RedirectUrl	String	No	Redirect product detail page to URL location. Useful for maintaining SEO value for a discontinued product.	
SellerID	Integer	No	Associate this product to a valid seller ID.	3
ShowAddToCart	Boolean	Yes		True
ShowAddToWishList	Boolean	Yes		True
ShowBuyNow	Boolean	Yes		True
ShowInventory	Boolean	Yes		True
ShowMSRP	Boolean	Yes		True

ShowPrice	Boolean	Yes		True
ShowQuantity	Boolean	Yes		True
ShowRewardPoints	Boolean	Yes		True
ShowSavings	Boolean	Yes		True
ShowSeeDetails	Boolean	Yes		True
ShowSKU	Boolean	Yes		True
ShowSocialShare	Boolean	Yes		True
ShowUpdate	Boolean	Yes		True
Specifications	String	No	Specifications text.	
SpecificationsName	String	No	Override default name for the specifications description.	
StartDate	DateTime	No	When to start publishing product.	2010-10-15
StopDate	DateTime	No	When to stop publishing product.	2012-01-18
Summary	String	No	Summary text.	
Terms	String	No	Terms text.	
TermsName	String	No	Override default name for the terms description.	
UpdateDate	DateTime	No		
UrlName	String	No	Name to appear in URL for SEO purposes.	Popular mechanics magazine



## Product Attribute

To import/export product attributes, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link, then select "Product attribute" and upload the CSV file.

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	i
ProductAttributeID	Integer	Yes/No	Database object identifier. This value must be specified when performing an update or delete action.	9
BooleanValue	Boolean	No	Boolean type value. If you specify a value here, you must not specify the DecimalValue, IntegerValue, SelectionValue or StringValue.	True
CreateDate	DateTime	No		
DecimalValue	Decimal	No	Decimal type value. If you specify a value here, you must not specify the BooleanValue, IntegerValue, SelectionValue or StringValue.	1.2
IntegerValue	Integer	No	Integer type value. If you specify a value here, you must not specify the BooleanValue, DecimalValue, SelectionValue or StringValue.	2
ProductAttributeDefinitionID	Integer	Yes/No	Associate this attribute to the Product Attribute Definition by its ProductAttributeDefinitionID. If you specify ProductAttributeDefinitionID, the ProductAttributeDefinitionKey will be ignored.	1
ProductAttributeDefinitionKey	String	Yes/No	Associate this attribute to the Product Attribute Definition by its ProductAttributeDefinitionKey. If you specify ProductAttributeDefinitionID, the ProductAttributeDefinitionKey will be ignored.	
ProductID	Integer	Yes/No	Associate this attribute to the product by its ProductID. If you specify ProductID, the ProductKey will be ignored. If you specify the ProductID, you must not specify the ProductVariantID or ProductVariantKey.	12

ProductKey	String	Yes/No	Associate this attribute to the product by its ProductKey. If you specify ProductID, the ProductKey will be ignored. If you specify the ProductID, you must not specify the ProductVariantID or ProductVariantKey.	apple
ProductVariantID	Integer	Yes/No	Associate this attribute to the product variant by its ProductVariantID. If you specify ProductVariantID, the ProductVariantKey will be ignored. If you specify the ProductVariantID, you must not specify the ProductID.	14
ProductVariantKey	String	Yes/No	Associate this attribute to the product variant by its ProductVariantKey. If you specify ProductVariantID, the ProductVariantKey will be ignored. If you specify the ProductVariantID, you must not specify the ProductID.	apple- ipad- white
SelectionValue	String	No	Pipe delimited list of integer selection values. Value must correspond to the possible ProductAttributeDefinitionSelectionID values. If you specify a value here, you must not specify the BooleanValue, DecimalValue, IntegerValue or StringValue.	12 32 1
StringValue	String	No	Localized string type value. If you specify a value here, you must not specify the BooleanValue, DecimalValue, IntegerValue or SelectionValue.	
UpdateDate	DateTime	No		

# Product Attribute Definition

To export product attribute definitions, go to **Catalog > Attribute definitions** from the Storefront module menu. Click on the **Export** link.

Column	Type	Data required	Description	Example
Act	String	No	No import action supported at the moment.	
ProductAttributeDefinitionID	Integer	Yes/No	Database object identifier.	45
ProductAttributeDefinitionKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.	color
Comparable	Boolean	Yes	Determines if this attribute type can be used for product comparison.	True
CreateDate	DateTime	No		
Description	String	No	Localized description.	
DisplayOrder	Integer	Yes	Sort display order.	1000
Filterable	Boolean	Yes	Product list can filter by this attribute type.	False
HelpText	String	No	Help displayed in tooltip.	
Name	String	Yes	Localized name.	Color
ProductAttributeGroupID	Integer	No	Associate this attribute to a product attribute group by its ProductAttributeGroupID.	
ProductAttributeType	Integer	Yes	Boolean = 1,Integer = 2, Decimal = 3, String = 4, Selection = 5	3
Published	Boolean	Yes		True
Searchable	Boolean	Yes	Product search can index this attribute.	False
StepSize	Decimal	Yes	The incremental change for decimal attribute type input.	1.0
UpdateDate	DateTime	No		

# Product Attribute Group

To export product attribute groups, go to **Catalog > Attribute groups** from the Storefront module menu. Click on the **Export** link.

Column	Type	Data required	Description	Example
Act	String	No	No import action supported at the moment.	
ProductAttributeGroupID	Integer	Yes/No	Database object identifier.	45
CreateDate	DateTime	No		
Description	String	No	Localized description.	
DisplayOrder	Integer	Yes	Sort display order.	1000
Name	String	Yes	Localized name.	Color
UpdateDate	DateTime	No		

# Product Category

The product category is the relationship that determines which product is associated to which category. To import/export product categories, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. Then select "Product category".

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Delete = d)	i
ProductCategoryID	Integer	Yes/No	Database object identifier. This value must be specified when performing a delete action.	9
CategoryID	Integer	Yes/No	Associate the category object by its CategoryID. If you specify CategoryID, the CategoryKey will be ignored.	4
CategoryKey	String	Yes/No	Associate the category object by its CategoryKey. If you specify CategoryID, the CategoryKey will be ignored.	business
CreateDate	DateTime	No		
DefaultCategory	Boolean	Yes	Specify if this is the default category association for this product. The default category is shown on the breadcrumb if customer arrived on the product detail page without selecting a category, manufacturer, distributor or coming from a search.	False
ProductID	Integer	Yes/No	Associate the product object by its ProductID. If you specify ProductID, the ProductKey will be ignored.	12
ProductKey	String	Yes/No	Associate the product object by its ProductKey. If you specify ProductID, the ProductKey will be ignored.	apple

# Product Component

To export product components, go to **Catalog > Products** from the Storefront module menu. Click on the **Export** link. Select Export from "Product component".

Column	Type	Data required	Description	Example
Act	String	No	Type of import action to perform (Insert = i, Update = u, Delete = d)	i
ProductComponentID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action if the ProductComponentKey is not provided.	38
ProductComponentKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID. If you don't specify a value, the system will generate a unique key for you during insertion. This key can be used to lookup the object if the ProductComponentID is not specified.	apple-bundled
ComponentType	Integer	Yes	Specify the type of component  Implicit = 1, Explicit = 2, Multiple = 3, Single = 4	1
CreateDate	DateTime	No		
DisplayOrder	Integer	Yes	Sort display order.	1000
Name	String	Yes		
ProductVariantID	Integer	Yes/No	Associate this component to the product variant by its ProductVariantID. If you specify ProductVariantID, the ProductVariantKey will be ignored. If you specify the ProductVariantID, you must not specify the ProductID.	12
ProductVariantKey	String	Yes/No	Associate this component to the product variant by its ProductVariantKey. If you specify ProductVariantID, the ProductVariantKey will be ignored. If you specify the ProductVariantID, you must not specify the ProductID.	
UpdateDate	DateTime	No		

## Product Part

To export product parts, go to **Catalog > Products** from the Storefront module menu. Click on the **Export** link. Select Export from "Product part".

Column	Type	Data required	Description	Example
Act	String	No	Type of import action to perform (Insert = i, Update = u, Delete = d)	i
ProductPartID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action.	38
CreateDate	DateTime	No		
DefaultQuantity	Integer	Yes	The default quantity for the product part.	1
DisplayOrder	Integer	Yes	Sort display order.	1000
MaxOrderQuantity	Integer	No	The maximum quantity for this product part that can be ordered in the bundle.	
MinOrderQuantity	Integer	No	The minimum quantity for this product part that can be ordered in the bundle.	
ModifierRule	XML Rule	No	Product part modifier rule.	
ProductComponentID	Integer	Yes/No	Reference the corresponding product component by its ProductComponentID. If you specify ProductComponentID, the ProductComponentKey will be ignored.	35
ProductComponentKey	String	Yes/No	Reference the corresponding product component by its ProductComponentKey. If you specify ProductComponentID, the ProductComponentKey will be ignored.	
ProductVariantID	Integer	Yes/No	Associate this product part to the product variant by its ProductVariantID. If you specify ProductVariantID, the ProductVariantKey will be ignored. If you specify the ProductVariantID, you must not specify the ProductID.	75
ProductVariantKey	String	Yes/No	Associate this component to the product variant by its ProductVariantKey. If you specify ProductVariantID, the ProductVariantKey will be ignored. If you specify the ProductVariantID, you must not specify the ProductID.	

Selected	Boolean	Yes	Specify if this product part is selected by default and participate in the bundled product.	True
ShowPrice	Boolean	Yes	Specify if the price of the product part is shown to the customer.	True
ShowQuantity	Boolean	Yes	Specify if the customer is allowed to edit the quantity.	False
UpdateDate	DateTime	No		



# Product Review

To export product reviews, go to **Catalog > Products** from the Storefront module menu. Click on the **Export** link. Then select "Product review".

Column	Type	Data required	Description	Example
Act	String	No	No import action supported at the moment.	
ProductReviewID	Integer	Yes/No	Database object identifier.	45
Approved	Boolean	Yes		True
Comment	String	No		
CreateDate	DateTime	No		
Email	String	No		
FirstName	String	No		
LastName	String	No		
OverallRating	Integer	Yes	Rating between 1 to 5.	5
ProductID	Integer	Yes/No	Associate the product by its ProductID. If you specify ProductID, the ProductKey will be ignored.	3
ProductKey	String	Yes/No	Associate the product by its ProductKey. If you specify ProductID, the ProductKey will be ignored.	apple-ipad
Title	String	No		
UpdateDate	DateTime	No		
UserHostAddress	String	No	IP address of the user.	
UserID	Integer	No	Associate the user by its UserID. If anonymous user, leave blank.	234

## Product Variant

To import/export product variants, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. Then select "Product variant".

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	u
ProductVariantID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action if the ProductVariantKey is not provided.	12
ProductVariantKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID. If you don't specify a value, the system will generate a unique key for you during insertion. This key can be used to lookup the object if the ProductVariantID is not specified.	apple-ipad-white
AllowableOrderQuantity	String	No	The distinct quantities you want to allow, separated by a pipe " " delimiter. Use a dash to denote a range of quantities. For example, if you enter "1 3 5-7 9" in the text box, only quantities 1, 3, 5, 6, 7 and 9 will be allowed.	1 3 5-7 9
AllowPartialReturn	Boolean	Yes	Indicates if the product can be returned wholly or partially.	False
AllowProductComparison	Boolean	Yes	Allow product to be compared with others.	True
AllowRecurringGroupOrders	Boolean	Yes	Allow this variant to be grouped together with other similar orders if this variant is due for recurring.	True
AllowRewardsPoint	Boolean	Yes	Allow this variant to participate in rewards point program.	True

AvailabilityRule	XML Rule	No	The rule to describe the conditions when the product can be purchased.	
BasePrice	Decimal	Yes	Product base price.	15.00
BookingRule	XML Rule	No	The rule to describe booking conditions such as exclusion dates.	
BuyingGuide	String	No	Buying guide text.	
BuyingGuideName	String	No	Override default name for the buying guide description.	
CreateDate	DateTime	No		
CreditInterval	Integer	No	The amount of time allowed to credit a return.	
CreditIntervalType	Integer	Yes	Day = 1 Week = 2 Month = 3 Year = 4	
Depth	Decimal	Yes	Product depth in cm. Enter zero if not used.	15.5
DisplayOrder	Integer	Yes	Product sort order from smallest to largest number.	1000
DistributorID	Integer	No	Associate this variant to a distributor by its DistributorID. If you specify DistributorID, the DistributorKey will be ignored.	9
DistributorKey	String	No	Associate this variant to a distributor by its DistributorKey. If you specify DistributorID, the DistributorKey will be ignored.	allied
DistributorSKU	String	No	Distributor SKU number.	

DownloadFile	String	No	The URL, file or page associated to the product.	
DynamicFormCode	XML Code	No	Custom HTML or input form elements.	
ExchangeInterval	Integer	No	The amount of time allowed to exchange a return.	
ExchangeIntervalType	Integer	Yes	Day = 1 Week = 2 Month = 3 Year = 4	
Extension	XML	No	Extra data in XML string.	<data> <misc>True</misc> </data>
FAQ	String	No	FAQ text.	
FAQName	String	No	Override default name for the FAQ description.	
HandlingPrice	Decimal	Yes	The handling price to charge if handling rule uses it.	0.00
HasSerialNumber	Boolean	Yes	Indicates if the product has serial number for return purposes.	False
Height	Decimal	Yes	Product height in cm. Enter zero if not used.	10
Inventory	Integer	No	Inventory level.	2000
InventoryEmptyBehavior	Integer	Yes	How product behaves when inventory is empty.  DisallowOrder = 1 DisableProduct = 2 AllowBackorder = 3	1

InventoryUnitType	Integer	Yes	<p>Indicate how inventory is treated especially in the case of a booking product. For regular product, the unit type should be Constant.</p> <p>Constant = 1  Year = 2  Month = 3  Week = 4  Day = 5  Hour = 6</p>	1
ManufacturerID	Integer	No	Associate this variant to a manufacturer by its ManufacturerID. If you specify ManufacturerID, the ManufacturerKey will be ignored.	3
ManufacturerKey	String	No	Associate this variant to a manufacturer by its ManufacturerKey. If you specify ManufacturerID, the ManufacturerKey will be ignored.	
ManufacturerSKU	String	No	Manufacturer SKU number.	
MaxBookingDate	DateTime	No		
MaxBookingTime	TimeSpan	No		
MaxInventory	Integer	No	The desirable max inventory to keep.	
MaxOrderQuantity	Integer	No	Maximum order quantity.	10
MaxOrderUnit	Integer	No	Maximum reservable units for a booking product.	5
MinOrderUnit	Integer	No	Minimum reservable units for a booking product.	3
MetaDescription	String	No	Localized meta description.	
MetaKeywords	String	No	Localized meta keywords.	
MinBookingDate	DateTime	No		
MinBookingTime	TimeSpan	No		
MinInventory	Integer	No	The desirable min inventory to keep.	

MinOrderQuantity	Integer	No	Minimum order quantity.	1
MinOrderUnit	Integer	No	Minimum reservable units for a booking product.	1
ModifierRule	XML Rule	No	Product modifier rule.	
MSRP	Decimal	No	Manufacturer suggested retail price.	25.00
Name	String	Yes	Product variant name.	Best of Popular Mechanics
Overview	String	No	Overview text.	
OverviewName	String	No	Override default name for the overview description.	
PackageType	Integer	Yes	Shipping package type used for shipping calculation.	2000
PageTitle	String	No	Localized page title.	
PreorderInterval	Integer	Yes	The days to preorder a recurring order ahead of time.	0
PriceText	String	No	Any text specified here will be shown to the customer instead of the actual price.	Call for price
ProductCost	Decimal	No	Cost of product.	8.00
ProductID	Integer	Yes/No	Reference the corresponding product by its ProductID. If you specify ProductID, the ProductKey will be ignored.	1
ProductKey	String	Yes/No	Reference the corresponding product by its ProductKey. If you specify ProductID, the ProductKey will be ignored.	apple-ipad
PromotionRule	XML Rule	No	Product promotion rule.	
PromotionStartDate	DateTime	No	Product promotion start date.	
PromotionStopDate	DateTime	No	Product promotion stop date.	

Published	Boolean	Yes	Enable display of the product.	True
RecurringInterval	Integer	Yes	The recurring repeat interval for the RecurringIntervalType. Enter zero for non-recurring.	12
RecurringIntervalType	Integer	Yes	Day = 1 Week = 2 Month = 3 Year = 4	3
RecurringMaxRepeat	Integer	No	The number of times to repeat the recurring order or leave blank to repeat perpetually.	1
RecurringMinRepeat	Integer	No	The minimum number of times that must be repeated before allowing customers from cancelling future recurring orders.	11
RefundInterval	Integer	No	The amount of time allowed to refund a return.	
RefundIntervalType	Integer	Yes	Day = 1 Week = 2 Month = 3 Year = 4	
RepairInterval	Integer	No	The amount of time allowed to repair a return.	
RepairIntervalType	Integer	Yes	Day = 1 Week = 2 Month = 3 Year = 4	
RequireHandling	Boolean	Yes	Product requires handling.	True

RequireShipping	Boolean	Yes	Product requires shipping.	True
RewardPoints	Integer	No	The custom number of rewards points to award. Leave empty if awarding the default number of points based on the selling price.	10
RightDefinitionID	Integer	No	If this value is set, the customer will be issued the access rights when order is paid or completed.	
SalesType	Integer	Yes	Determine if product can be purchased at the listed price or must be quoted first.  Sale = 1 Quoted = 2	
ShippingCode	String	No	Shipping code may be used by your shipping provider to classify this package to obtain a more accurate quote.	
ShippingPrice	Decimal	Yes	The shipping price to charge if shipping rule uses it.	0.00
SKU	String	No	Product SKU	RVD1000.V1
Specifications	String	No	Specifications text.	
SpecificationsName	String	No	Override default name for the specifications description.	
StartDate	DateTime	No	When to start publishing product.	2010-10-15
StartRecurringDate	DateTime	No	Initialize a different recurring start date by interval amount.	
StartRecurringInterval	Integer	Yes	Initialize a different recurring start date by interval amount.	0
StartRecurringIntervalType	Integer	Yes	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).	1
StopDate	DateTime	No	When to stop publishing product.	2012-01-18



Summary	String	No	Summary text.	
TaxClassID	Integer	No	Product tax class. Database tax class ID.	3
Terms	String	No	Terms text.	
TermsName	String	No	Override default name for the terms description.	
UniversalProductCode	String	No	Universal product code.	
UpdateDate	DateTime	No		
UrlName	String	No	Localized URL name for SEO.	
VoucherDefinitionID	Integer	No	If this value is set, a new voucher of this type will be automatically generated and emailed to customer when order is paid or completed.	
WarehouseID	Integer	No	Indicate if this product is kept at a specific warehouse. Reference the warehouse by its WarehouseID. If the WarehouseID is specified, the WarehouseKey is ignored.	8
WarehouseKey	String	No	Indicate if this product is kept at a specific warehouse. Reference the warehouse by its WarehouseKey. If the WarehouseID is specified, the WarehouseKey is ignored.	
Weight	Decimal	Yes	Product weight in gram. Enter zero if not used.	100
Width	Decimal	Yes	Product width in cm. Enter zero if not used.	10.2

## Product Variant Group

The product variant group allows you to regroup the different options available for your variants. To import/export product variant groups, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. Then select "Product variant group".

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	i
ProductVariantGroupID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action if the ProductVariantGroupKey is not provided.	9
ProductVariantGroupKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID. If you don't specify a value, the system will generate a unique key for you during insertion. This key can be used to lookup the object if the ProductVariantGroupID is not specified.	apple- ipad- colors
CreateDate	DateTime	No		
DisplayOrder	Integer	Yes	Sort order for display.	1000
FieldType	Integer	Yes	The type of control to display. DropDownList = 1, RadioButtonList = 2, ColorPicker = 3, ImageSwatch = 4	2
HelpText	String	No	Localized help text.	
Name	String	Yes	Localized name.	
ProductID	Integer	Yes/No	Associate the product object by its ProductID. If you specify ProductID, the ProductKey will be ignored.	12
ProductKey	String	Yes/No	Associate the product object by its ProductKey. If you specify ProductID, the ProductKey will be ignored.	apple
UpdateDate	DateTime	No		

## Product Variant Group Option

The product variant group options are the individual selections (e.g. red, blue, green) that make up a product variant group (e.g. colors). To import/export product variant group options, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. Then select "Product variant group option".

The image file is needed if field type is an ImageSwatch. The file path of the image is relative to the portal root. Do not specify the path to the portals folder (e.g. "portals\0")

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	i
ProductVariantGroupOptionID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action if the ProductVariantGroupOptionKey is not provided.	16
ProductVariantGroupOptionKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID. If you don't specify a value, the system will generate a unique key for you during insertion. This key can be used to lookup the object if the ProductVariantGroupOptionID is not specified.	apple-ipad-colors-blue
ColorCode	String	Yes/No	The color code used if this group option is a color swatch type.	#FCFCFC
CreateDate	DateTime	No		
DisplayOrder	Integer	Yes	Sort order for display.	1000
Name	String	Yes	Localized name.	
ProductVariantGroupID	Integer	Yes/No	Associate the product variant group object by its ProductVariantGroupID. If you specify ProductVariantGroupID, the ProductVariantGroupKey will be ignored.	12

ProductVariantGroupKey	String	Yes/No	Associate the product object by its ProductVariantGroupKey. If you specify ProductVariantGroupID, the ProductVariantGroupKey will be ignored.	apple
StageImageFile	String	Yes/No	The image file is needed if the ProductVariantGroup Field type specifies an ImageSwatch type. The file path of the image is relative to the portal root. Do not specify the path to the portals folder (e.g. "portals\0")	Temp\1.jpg
UpdateDate	DateTime	No		

## Product Variant Option

The product variant options is the relationship between the product variant and the product variant group option (e.g. blue). To import/export product variant options, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. Then select "Product variant option".

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	i
ProductVariantOptionID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action.	
CreateDate	DateTime	No		
ProductVariantGroupOptionID	Integer	Yes/No	Associate the product variant group option object by its ProductVariantGroupOptionID. If you specify ProductVariantGroupOptionID, the ProductVariantGroupOptionKey will be ignored.	16
ProductVariantGroupOptionKey	String	Yes/No	Associate the product variant group option object by its ProductVariantGroupOptionKey. If you specify ProductVariantGroupOptionID, the ProductVariantGroupOptionKey will be ignored.	apple- ipad- colors- blue
ProductVariantID	Integer	Yes/No	Associate the product variant object by its ProductVariantID. If you specify ProductVariantID, the ProductVariantKey will be ignored.	14
ProductVariantKey	String	Yes/No	Associate the product variant object by its ProductVariantKey. If you specify ProductVariantID, the ProductVariantKey will be ignored.	apple- ipad- white
UpdateDate	DateTime	No		

# Recurring Sales Order

To export recurring sales orders, go to **Sales > Recurring orders** from the Storefront module menu. Click on the **Export** link.

Column	Type	Data required	Description	Example
Act	String	No	No import action supported at the moment.	
RecurringSalesOrderID	Integer	Yes	Database object identifier.	
AdminNotes	String	No	Notes visible to the store administrator only.	
CreateDate	DateTime	No		
CultureCode	String	Yes	The culture code.	
DynamicFormResult	XML	No	The result collected from custom fields.	
MaxRepeat	Integer	No	The number of times this recurring order is allowed to repeat.	
NextRecurringDate	DateTime	Yes	The next recurring date.	
OriginalSalesOrderID	Integer	No	The associated SalesOrder.	
ProductVariantID	Integer	Yes	The ProductVariant object identifier.	
Quantity	Integer	Yes		
RepeatCount	Integer	Yes	The number of times this recurring order has repeated.	
SellerID	Integer	No	Indicates if this object belongs to a seller.	
ShippingCity	String	Yes		
ShippingCompany	String	No		
ShippingCountryCode	String	Yes		
ShippingEmail	String	Yes		
ShippingFirstName	String	Yes		
ShippingLastName	String	Yes		

ShippingMethodID	Integer	No	ShippingMethod object identifier.	
ShippingPhone	String	No		
ShippingPostalCode	String	Yes		
ShippingStreet	String	Yes		
ShippingSubdivisionCode	String	Yes		
Status	Integer	Yes	Recurring order status (Active = 1, Hold = 2, Invalid = 3, Cancelled = 4)	
UpdateDate	DateTime	No		
UserID	Integer	Yes	UserID object identifier.	
UserPaymentID	Integer	Yes	UserPayment object identifier.	

## Related Product

To import/export related products, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. Then select "Related product".

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Delete = d)	i
RelatedProductID	Integer	Yes/No	Database object identifier. This value must be specified when performing a delete action.	
CreateDate	DateTime	No		
ProductID	Integer	Yes/No	Associate the product object by its ProductID. If you specify ProductID, the ProductKey will be ignored.	16
ProductKey	String	Yes/No	Associate the product object by its ProductID. If you specify ProductID, the ProductKey will be ignored.	apple-ipad
RelationProductID	Integer	Yes/No	Associate the related product object by its ProductID. If you specify ProductID, the ProductKey will be ignored.	14
RelationProductKey	String	Yes/No	Associate the related product object by its ProductKey. If you specify ProductID, the ProductKey will be ignored.	apple-ipad-white



## Required Product

To import/export required products, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. Then select "Required product".

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Delete = d)	i
RequiredProductID	Integer	Yes/No	Database object identifier. This value must be specified when performing a delete action.	
CreateDate	DateTime	No		
DeferDate	DateTime	No	Defer the start of the required product until the date specified.	
DeferInterval	Integer	Yes	Defer the start of the required product by the amount of interval time. Enter zero to start immediately.	0
DeferIntervalType	Integer	Yes	The interval type for the deferral. Day = 1, Week = 2, Month = 3, Year = 4	1
ProductVariantID	Integer	Yes/No	Associate the product variant object by its ProductVariantID. If you specify ProductVariantID, the ProductVariantKey will be ignored.	15
ProductVariantKey	String	Yes/No	Associate the product variant object by its ProductVariantKey. If you specify ProductVariantID, the ProductVariantKey will be ignored.	apple- ipad- white
Published	Boolean	Yes	Determine if the required product is disclosed to the customer.	True
Quantity	Integer	Yes	A non-zero value will match the quantity ordered (e.g. if you set a value of 2 and the customers places an order for 2 items, the total required products will equal 4). Enter a value of 1 if you want to have a one to one match. If you want a single required product regardless of any number of items purchased, enter a value of 0.	1

RequiredProductVariantID	Integer	Yes/No	Associate the required product variant object by its ProductVariantID. If you specify ProductVariantID, the ProductVariantKey will be ignored.	16
RequiredProductVariantKey	String	Yes/No	Associate the required product variant object by its ProductVariantID. If you specify ProductVariantID, the ProductVariantKey will be ignored.	apple- ipad- cover
UpdateDate	DateTime	No		

# Right

To import rights, go to **Sales > Rights** from the Storefront module menu. Click on the **Import** link and upload the CSV file.

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Delete = d)	i
RightID	Integer	Yes/No	Database object identifier. This value must be specified when performing a delete action.	9
AdminNotes	String	No	Notes visible to store administrators only. You should leave this field blank when inserting new unassigned rights.	
AssignedUserID	Integer	No	Optionally associate this right to a user.	1401
Code	String	Yes	The secret code that will be shown to the user.	ds52-dad3
CreateDate	DateTime	No		
IssueDate	DateTime	Yes	The date this right was initially issued to the user.	2013-01-01 00:00:00
RightDefinitionID	Integer	Yes	The right definition object identifier associated with this right. The right definition is the template that determines type of right.	23
SalesOrderDetailID	Integer	No	The SalesOrderDetailID that is associated with this issued right after the purchase is completed. You should leave this field blank when inserting new unassigned rights.	
UpdateDate	DateTime	No		

# Sales Order

To export sales orders, go to **Sales > Orders** from the Storefront module menu. Click on the **Export** link.

Column	Type	Data required	Description	Example
Act	String	No	No import action supported at the moment.	
AdminNotes	String	No	Notes intended for store administrators.	
AffiliateID	Integer	No	The Affiliate ID tracked to the order if it originated from a referral.	
BillingCity	String	Yes		
BillingCompany	String	No		
BillingCountryCode	String	Yes		
BillingEmail	String	Yes		
BillingFirstName	String	Yes		
BillingLastName	String	Yes		
BillingPhone	String	No		
BillingPostalCode	String	Yes		
BillingStreet	String	Yes		
BillingSubdivisionCode	String	Yes		
BusinessTaxNumber	String	No	Business tax number (e.g. VAT number).	
CouponCodes	String	No	Pipe delimited coupon codes.	
CreateDate	DateTime	No		
CultureCode	String	Yes	The display culture.	
CurrencyCultureCode	String	Yes	The currency culture.	
CustomerNotes	String	No	Notes intended for customer.	
DynamicFormResult	XML	No	The result collected from DynamicForm.	

ExchangeRate	Decimal	Yes	The exchange rate relative to the primary currency.	
FraudScore	Integer	No	The registered fraud score from 0 to 100 if available.	
FraudRiskGateway	String	No	The risk gateway provider.	
HandlingAmount	Decimal	Yes	Handling amount.	
HandlingDiscountAmount	Decimal	Yes	Handling discount.	
HandlingMethodID	Integer	No	The HandlingMethod object identifier.	
HandlingTaxAmount1	Decimal	Yes		
HandlingTaxAmount2	Decimal	Yes		
HandlingTaxAmount3	Decimal	Yes		
HandlingTaxAmount4	Decimal	Yes		
HandlingTaxAmount5	Decimal	Yes		
OrderDate	DateTime	Yes	The order date.	
OrderLocked	Boolean	Yes	Lock the order to prevent customer from changing the order details when resuming an incomplete order.	
Origin	Integer	Yes	Where the order originated (Web Checkout = 1, System Recurring = 2).	
PackingMethodID	Integer	No	PackingMethod object identifier.	
ParentSalesOrderID	Integer	No	The parent sales order if this order belonged in a sales order set.	
PaymentTerm	Integer	No	See Payment Term Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-term-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-term-types/rvdwkpvm/section</a> )	
PreferredUserPaymentID	Integer	No		
PurchaseOrderNumber	String	No	Purchase order number.	
RewardsPointsQualified	Integer	Yes	The number of rewards points earned from the purchase of this order.	

RewardsPointsRewarded	Integer	Yes	The estimated number of points actually rewarded to the customer for this order so far.	
SalesOrderGUID	GUID	Yes	SalesOrder globally unique identifier.	
SalesOrderID	Integer	Yes	The object identifier.	
SalesOrderNumber	String	Yes	The order number shown to customer and printed on receipts.	
SalesPaymentStatus	Integer	Yes	Sales payment status (Pending = 1, Paid = 2, Cancelled = 3, Refunded = 4).	
SellerID	Integer	No	The seller associated with this sales order.	
ShippedDate	DateTime	No	The date the order is shipped, if available.	
ShippingAmount	Decimal	Yes		
ShippingCity	String	Yes		
ShippingCompany	String	No		
ShippingCountryCode	String	Yes		
ShippingDiscountAmount	Decimal	Yes		
ShippingEmail	String	Yes		
ShippingFirstName	String	Yes		
ShippingLastName	String	Yes		
ShippingMethodID	Integer	No	ShippingMethod object identifier.	
ShippingPackages	XML	No	The packing result.	
ShippingPhone	String	No		
ShippingPostalCode	String	Yes		
ShippingStatus	Integer	Yes	Shipping status (Not Required = 1, Not Shipped = 2, Shipped = 3, Undeliverable = 4).	
ShippingStreet	String	Yes		
ShippingSubdivisionCode	String	Yes		
ShippingTaxAmount1	Decimal	Yes		

ShippingTaxAmount2	Decimal	Yes		
ShippingTaxAmount3	Decimal	Yes		
ShippingTaxAmount4	Decimal	Yes		
ShippingTaxAmount5	Decimal	Yes		
ShippingTrackingCode	String	No	Shipping tracking code.	
ShippingUniversalServiceName	String	No	The globally unique name generated by the system that corresponds to the shipping gateway's service name used internally to match a real-time shipping method.	
Status	Integer	Yes	Sales order status (Pending = 1, Ordered = 2, Processing = 3, Completed = 4, Cancelled = 5, Declined = 6, Incomplete = 7)	
SubTotalAmount	Decimal	Yes	Sub-total.	
TaxAmount1	Decimal	Yes		
TaxAmount2	Decimal	Yes		
TaxAmount3	Decimal	Yes		
TaxAmount4	Decimal	Yes		
TaxAmount5	Decimal	Yes		
TaxDiscountAmount	Decimal	Yes		
TotalAmount	Decimal	Yes		
UpdateDate	DateTime	No		
UserHostAddress	String	No	User IP address.	
UserID	Integer	No	UserID object identifier.	
WarehouseID	Integer	No	The warehouse associated to this sales order.	

## Sales Order Detail

To export sales order details, go to **Sales > Orders** from the Storefront module menu. Click on the **Export** link. Then select "Sales order detail".

Column	Type	Data required	Description	Example
Act	String	No	No import action supported at the moment.	
AdminNotes	String	No	Notes visible to the store administrator only.	
BasePrice	Decimal	Yes		
BookingStartDate	DateTime	No	The starting date for a booked order in UTC time zone.	2016-01-01 00:00:00
BookingStopDate	DateTime	No	The stopping date for a booked order in UTC time zone.	2016-01-06 00:00:00
CreateDate	DateTime	No		
Depth	Decimal	Yes		
DiscountAmount	Decimal	Yes		
DynamicFormResult	XML	No		
HandlingPrice	Decimal	Yes		
Height	Decimal	Yes		
PackageType	Integer	Yes	Package type for shipping calculation (Unspecified = 1, Envelope = 1000, Box = 2000, Bag = 3000, Tube = 4000).	
ParentSalesOrderDetailID	Integer	No	Indicates if this SalesOrderDetail item is a product part and child of a parent SalesOrderDetail object usually in a bundled product scenario.	
Price	Decimal	Yes		
PriceLocked	Integer	Yes	Indicates if the prices are locked from changes.	
ProductCost	Decimal	No		



ProductName	String	Yes	Localized product name.	
ProductPartID	Integer	No	References the ProductPart object usually from a bundled product purchase.	
ProductVariantExtension	XML	No		
ProductVariantID	Integer	Yes	ProductVariant object identifier.	
ProductVariantName	String	No	Localized product variant name.	
Quantity	Integer	Yes		
RecurringInterval	Integer	Yes	The recurring interval.	
RecurringIntervalType	Integer	Yes	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).	
RecurringSalesOrderID	Integer	No	The associated RecurringSalesOrder object identifier if this SalesOrderDetail object was created from a recurring order.	
RequireShipping	Boolean	Yes	Indicate if product requires shipping.	
SalesOrderDetailID	Integer	Yes	The object identifier.	
SalesOrderID	Integer	Yes	The associated SalesOrder object identifier.	
ShippingPrice	Decimal	Yes		
ShippingStatus	Integer	Yes	Shipping status (Not Required = 1, Not Shipped = 2, Shipped = 3, Undeliverable = 4).	
SKU	String	No		
Status	Integer	Yes	Order detail status (Pending = 1, Ordered = 2, Processing = 3, Completed = 4, Quoted = 9)	
TaxAmount1	Decimal	Yes		
TaxAmount2	Decimal	Yes		
TaxAmount3	Decimal	Yes		
TaxAmount4	Decimal	Yes		
TaxAmount5	Decimal	Yes		
UpdateDate	DateTime	No		

Weight	Decimal	Yes		
Width	Decimal	Yes		

## Similar Product

To import/export similar products, go to **Catalog > Products** from the Storefront module menu. Click on the **Import** or **Export** link. Then select "Similar product".

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Delete = d)	i
SimilarProductID	Integer	Yes/No	Database object identifier. This value must be specified when performing a delete action.	
CreateDate	DateTime	No		
ProductID	Integer	Yes/No	Associate the product object by its ProductID. If you specify ProductID, the ProductKey will be ignored.	16
ProductKey	String	Yes/No	Associate the product object by its ProductID. If you specify ProductID, the ProductKey will be ignored.	apple- ipad
SimilarityProductID	Integer	Yes/No	Associate the similar product object by its ProductID. If you specify ProductID, the ProductKey will be ignored.	14
SimilarityProductKey	String	Yes/No	Associate the similar product object by its ProductKey. If you specify ProductID, the ProductKey will be ignored.	apple- ipad- white

# Voucher

To import vouchers, go to **Sales > Vouchers** from the Storefront module menu. Click on the **Import** link and upload the CSV file.

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Delete = d)	i
VoucherID	Integer	Yes/No	Database object identifier. This value must be specified when performing a delete action.	7
AdminNotes	String	No	Notes visible to store administrators only.	
Amount	Decimal	Yes	The balance amount currently available in the voucher.	10.00
AssignedUserID	Integer	No	Optionally associate this voucher to a user such that only the registered is allowed to redeem the voucher.	1401
Code	String	Yes	The voucher code must be a unique alphanumeric number (A-Z, 0-9). The code is treated as case-insensitive.	A60PB98Z0L123
CreateDate	DateTime	No		
InitialAmount	Decimal	Yes	The starting amount of the voucher when it was first created.	25.00
IssueDate	DateTime	Yes	The date this voucher was initially issued. This date is used to determine the expiry date if the voucher definition determines there is an applicable expiration on this voucher.	2013-01-01 00:00:00
SalesOrderDetailID	Integer	No	The SalesOrderDetailID that is associated with this voucher after the purchase is completed. You should leave this field blank when inserting new vouchers.	
Status	Integer	Yes	The status of this voucher. Inactive = 1, Active = 2, Hold = 3, Cancelled = 4	2
UpdateDate	DateTime	No		

VoucherDefinitionID	Integer	Yes	The voucher definition object identifier associated with this voucher. The voucher definition is the template that determines how this voucher can be used.	23
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# Warehouse

To import/export warehouses, go to **Catalog > Warehouses** from the Storefront module menu. Click on the **Import** or **Export** link.

Column	Type	Data required	Description	Example
Act	String	Yes	Type of import action to perform (Insert = i, Update = u, Delete = d)	u
WarehouseID	Integer	Yes/No	Database object identifier. This value is required when performing an update or delete action if the WarehouseKey is not provided.	98
WarehouseKey	String	Yes/No	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID. If you don't specify a value, the system will generate a unique key for you during insertion. This key can be used to lookup the object if the WarehouseID is not specified.	westcoast
City	String	Yes		
CountryCode	String	Yes		US
CreateDate	DateTime	No		
Description	String	No	Short description.	
Email	String	No		
Name	String	Yes	Localized name.	West Coast Warehouse
Phone	String	No		
PostalCode	String	Yes		
SellerID	Integer	No	Associate the seller object by its SellerID.	
Street	String	Yes		
SubdivisionCode	String	Yes	The state, province or region code.	US-CA
UpdateDate	DateTime	No		



## Examples

To obtain sample data to play with, please login to our demo site (<http://demo.revindex.com>) as a merchant and export out the sample products CSV files that you can use to import into your own site.

Alternatively, you can simply configure a few products in your own Storefront and export out the data to see what the actual CSV files look like. This will allow you to modify the CSV files and perform a bulk import.



# Export products

You can easily export products from your Storefront by following the steps below:

1. Go to the **Catalog > Products** page.
2. Click **Export** button.
3. Choose the options you want.
4. Click **Export** button.

You will likely want to export the product variants too:

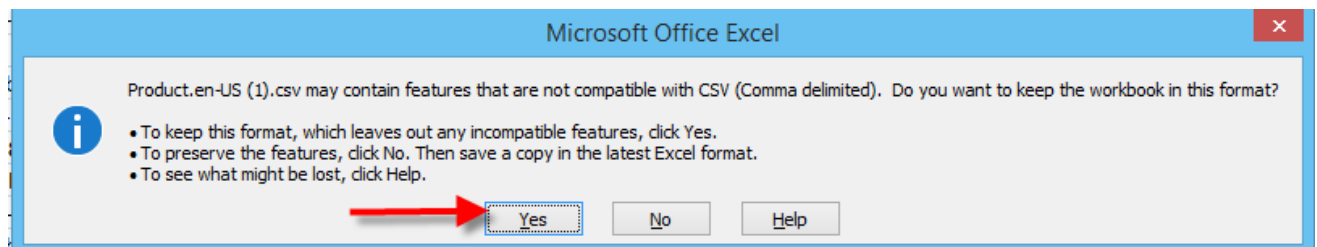
1. From the same screen, select export from "Product variant".
2. Choose the options you want.
3. Click **Export** button.

The full product consists of many data points from various entities. Simply repeat the steps above to export out the desired related entities such as Gallery, Product attribute, Category, etc.

# Insert products

Before you start inserting new products, we recommend that you first create a few sample products in your Storefront through the normal administrative interface. Then follow the steps to export out the product file to see what the data looks like. See Export products (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-product/rvdwkpvm/section>) for more information.

1. You will need to build your product CSV file according to the product file format specification (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-product/rvdwkpvm/section>). The best way is to open a previously exported CSV file using Excel (you may also use Notepad or any text editor).
2. The first row is the header row and needs to match the column names according to the entity file format.
3. Start entering data into the next row. Pay attention to the required columns. Even if a column is indicated as not data required, the column must still be present but the value may be blank.
4. Make sure the **Act** column value is set to "I" for insert.
5. You can leave the database object identifier ProductID empty since this will be auto-generated by your database.
6. Enter a memorable unique ProductKey for this product (e.g. "apple-ipad"). It will be useful when you need to reference it elsewhere in your other imports by key name instead of by its ID number.
7. Fill up the remaining required fields like Name, etc.
8. Repeat steps 3 to 7 for additional products you want to insert.
9. Save the file. Click **Yes** if Excel prompts you to save the file with features that are not compatible with CSV and keeping this format.



10. Go to the **Catalog > Products** page. Click **Import**.
11. Choose the options.
12. Click **Import**.
13. Make sure there are no errors. If any error occurred, the system will rollback any changes by default. Correct any error and re-import again.

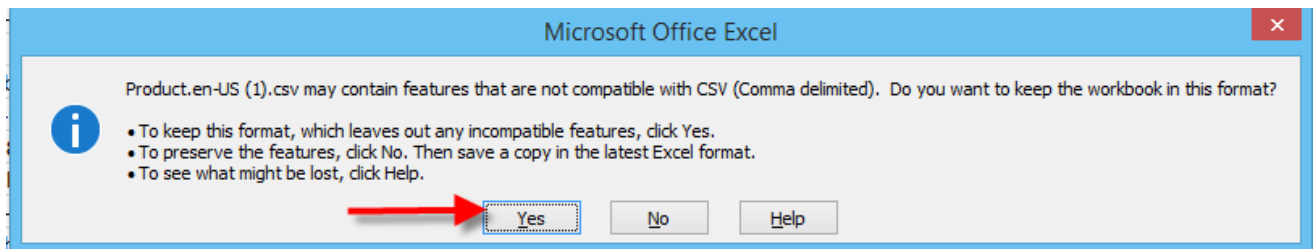
You will want to repeat the similar steps at least for the Product variant and any related entities such as Gallery, Product Category, etc.

# Update products

Follow the steps to export out the product file to see what the data looks like. See Export products

(<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-export-products/rvdwkpvm/section>) for more information.

1. You will need to build your product CSV file according to the product file format specification (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-product/rvdwkpvm/section>). The best way is to open a previously exported CSV file using Excel (you may also use Notepad or any text editor).
2. The first row is the header row and needs to match the column names according to the entity file format.
3. Start entering data into the next row. Pay attention to the required columns. Even if a column is indicated as not data required, the column must still be present but the value may be blank.
4. Make sure the **Act** column value is set to "u" for update. Please note not all entities support the update action. In this case, you may need to perform a delete followed by an insert to simulate an update action.
5. The database object identifier ProductID is required since this value will be used to retrieve the product to update.
6. Fill up the remaining required fields like Name, etc.
7. Repeat steps 3 to 6 for additional products you want to update.
8. Save the file. Click **Yes** if Excel prompts you to save the file with features that are not compatible with CSV and keeping this format.



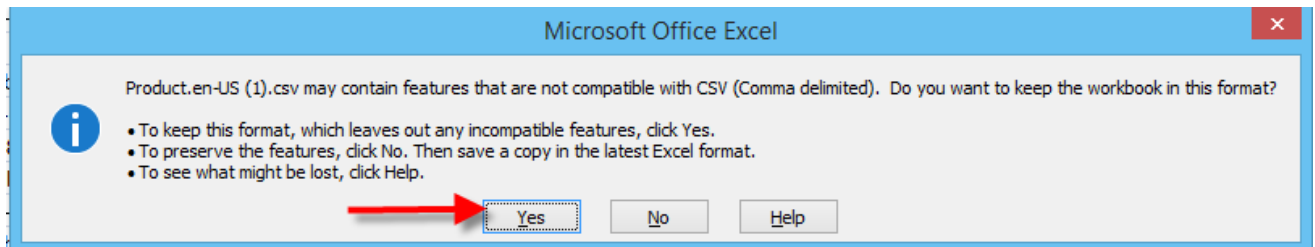
9. Go to the **Catalog > Products** page. Click **Import**.
10. Choose the options.
11. Click **Import**.
12. Make sure there are no errors. If any error occurred, the system will rollback any changes by default. Correct any error and re-import again.

# Delete products

Follow the steps to export out the product file to see what the data looks like. See [Export products](#)

(<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-export-products/rvdwkpvm/section>) for more information.

1. You will need to build your product CSV file according to the product file format specification (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-product/rvdwkpvm/section>). The best way is to open a previously exported CSV file using Excel (you may also use Notepad or any text editor).
2. The first row is the header row and needs to match the column names according to the entity file format.
3. Start entering data into the next row. Pay attention to the required columns. Even if a column is indicated as not data required, the column must still be present but the value may be blank.
4. Make sure the **Act** column value is set to "d" for delete.
5. The database object identifier ProductID is required since this value will be used to retrieve the product to delete. For delete operations, other column fields are usually not required.
6. Repeat steps 3 to 5 for additional products you want to delete.
7. Save the file. Click **Yes** if Excel prompts you to save the file with features that are not compatible with CSV and keeping this format.



8. Go to the **Catalog > Products** page. Click **Import**.
9. Choose the options.
10. Click **Import**.
11. Make sure there are no errors. If any error occurred, the system will rollback any changes by default. Correct any error and re-import again.

## Export products (SQL)

You can also export products to a CSV file is using the **Host > SQL** module with the latest DNN 7.2 or higher. You will require host account access to run this operation. This allows you to manipulate the data to suit your file format.

1. Login as host.
2. Go to **Host > SQL** page.
3. Choose "SiteSqlServer" for your **Connection** dropdown.
4. Enter the following SQL query where X is your portal ID number.

```
1 |
2 | SELECT *
3 | FROM {databaseOwner}{objectQualifier}Revindex_Storefront_Product
4 | WHERE PortalID = X
5 |
6 | SELECT *
7 | FROM {databaseOwner}{objectQualifier}Revindex_Storefront_ProductVariant
8 | WHERE PortalID = X
9 |
```

5. Click **Run Script**.
6. Once the results are displayed, click on the **Export to CSV** or **Export to Excel** buttons depending on the file format you like to safeguard.

SQL query is very flexible as it allows you to specify only the columns you want. For example, you can modify the query above to show only the columns ProductID, Name and Overview:

```
1 |
2 | SELECT ProductID, Name, Overview
3 | FROM {databaseOwner}{objectQualifier}Revindex_Storefront_Product
4 | WHERE PortalID = X
5 |
```

You can also limit the number of records to return only 100 records and order by descending order like this:

```
1 |
2 | SELECT TOP 100 ProductID, Name, Overview
3 | FROM {databaseOwner}{objectQualifier}Revindex_Storefront_Product
4 | WHERE PortalID = X
5 | ORDER BY ProductID DESC
6 |
```

You'll find countless online tutorials (<http://www.w3schools.com/sql/default.asp>) on how to manipulate SQL queries.

## Export orders (SQL)

You can also export to CSV or Excel file using the **Host > SQL** module with the latest DNN 7.2 or higher. You will require host account access to run this operation. This allows you to manipulate the data to suit your file format.

1. Login as host.
2. Go to **Host > SQL** page.
3. Choose "SiteSqlServer" for your **Connection** dropdown.
4. Enter the following SQL query where X is your portal ID number.

```
1  
2 SELECT *  
3 FROM {databaseOwner}{objectQualifier}Revindex_Storefront_SalesOrder  
4 WHERE PortalID = X  
5  
6 SELECT sod.*  
7 FROM {databaseOwner}{objectQualifier}Revindex_Storefront_SalesOrderDetail sod  
8 JOIN {databaseOwner}{objectQualifier}Revindex_Storefront_SalesOrder so  
9 ON so.SalesOrderID = sod.SalesOrderID  
1 WHERE so.PortalID = X  
0  
;
```

5. Click **Run Script**.
6. Once the results are displayed, click on the **Export to CSV** or **Export to Excel** buttons depending on the file format you like to safeguard.

SQL query is very flexible as it allows you to specify only the columns you want. For example, you can modify the query above to show only the columns SalesOrderID, OrderDate and TotalAmount:

```
1  
2 SELECT SalesOrderID, OrderDate, TotalAmount  
3 FROM {databaseOwner}{objectQualifier}Revindex_Storefront_SalesOrder  
4 WHERE PortalID = X  
5
```

You can also limit the number of records to return only 100 records and order by descending order like this:

```
1  
2 SELECT TOP 100 SalesOrderID, OrderDate, TotalAmount  
3 FROM {databaseOwner}{objectQualifier}Revindex_Storefront_SalesOrder  
4 WHERE PortalID = X  
5 ORDER BY SalesOrderID DESC  
6
```

You'll find countless online tutorials (<http://www.w3schools.com/sql/default.asp>) on how to manipulate SQL queries.

# How to bulk update gallery images

The following example assumes you want to update all product images of a certain format. Make sure you read the Overview (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-overview/rvdwkpvm/section>) first to understand how it works. Please refer to Gallery (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-gallery/rvdwkpvm/section>) for full column specifications.

Use object keys to help match products to gallery objects easily. Please see How to bulk update product keys (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/how-to-bulk-update-product-keys/rvdwkpvm/section>) for example on initializing your object keys.

1. Take a full backup of your site prior to doing any bulk update operation.
2. Under **Catalog > Products**, click **Export** button. Choose **Export from** = "Gallery" and click **Export** to download the CSV file. Open the CSV file in your favorite spreadsheet program.
3. The gallery export may include images that are related to other entities like category and variant. Since you only want to update product images, delete all rows that don't have a value in the **ProductID** column. If you only want to affect products of a certain format (e.g. thumbnail), you need to further remove rows that don't belong to the desired **Format** value.
4. For every row in the **Act** column, set the value "d" to indicate a delete action. Save your file.
5. Under the **Catalog > Products** screen, click on the **Import** button. Choose **Import to** = "Gallery" and choose your newly edited CSV file. Click **Import**. If it succeeded, all product images that are marked "d" will have been deleted from your system.
6. Continuing from your spreadsheet, now replace the "d" value with the "i" action in the **Act** column for all the rows to indicate an insert action.
7. From your site **Admin > File Management** page, create a folder to temporarily hold your new images (e.g. "MyUploads"). Upload your new images to the newly created folder. You may use FTP or your browser to perform the actual uploads of the images.
8. In the **StageMediaFile** column, replace the value with your newly uploaded image filenames. The path should be relative to your portal folder path. You can make use of the **ProductKey** column to help match the product with the correct image.
9. Under the **Catalog > Products** screen, click on the **Import** button. Choose **Import to** = "Gallery" and choose your newly edited CSV file. Click **Import**. If it succeeded, all product images that are marked "i" will have been imported to your system.



# How to bulk update product keys

Product keys are useful keywords to help match products in a CSV file for import and export purposes. If you never assigned sensible product keys during product creation, the system will have generated one for you using a random GUID value. You can follow the steps below to bulk assign a more sensible value that will become helpful for other future import operations. The following example shows how to bulk update your product keys. Make sure you read the Overview (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-overview/rvdwkpvm/section>) first to understand how it works. Please refer to Product (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-export-product/rvdwkpvm/section>) for full column specifications.

Enable the **Show object key** feature under the **Configuration > General** settings. Enabling this feature will make the product key appear in your catalog screens. If you don't have many products, you can edit the product key from the catalog screens individually instead of performing the bulk update below.

1. Make sure to take a full backup before performing any bulk operation.
2. Under **Catalog > Products**, click on **Export**. Choose **Export from** = "Product" and click **Export** to download the CSV file. Open the CSV file in your favorite spreadsheet program.
3. For every row, set the **Act** column value to "u" to indicate update action.
4. Copy the **Name** value and paste to the **ProductKey** column row for row. You need to make sure each ProductKey value is unique in your system. If you have any duplicates, you can simply append a number (e.g. "Brown shoe 18") to make it unique. Save your file.
5. Under **Catalog > Products**, click on **Import**. Choose **Export to** = "Product", choose your file and click **Import**.

# Site Wide Import and Export

In addition to exporting and importing individual objects, you can perform a site-wide export of almost every object in your catalog and import back into another DNN instance or to a different portal on the same instance.

## Known Limitations

- Most catalog only objects are included.
- Vouchers are currently not included.
- Rights are currently not included.
- Custom reports are currently not included.
- Sales, marketing and store configuration values are currently not included.
- File resources are currently not included. Any catalog references to a file on your system may not be accurate after importing back.
- Any role references are not honored. Any catalog references to a role on your system may not be accurate after importing back.
- Object key names are modified to avoid collision with other keys already in the system.
- Your home directory path must reference your portal ID number (default installation). Custom home directory path is not supported.

## Export

To perform a portal export, click on the **Export content** from the Storefront Administration module's action menu. You will be prompted to choose a location to save the generated XML file. In addition to the XML file, there are other files and large binary objects that are exported to fixed location that you will need to transfer over to another system prior to importing. Please note the 0 indicates your portal number.

- Gallery images are exported to `\portals\0\RevindexStorefront\Export\Gallery` folder
- Display templates are exported to `\portals\0\RevindexStorefront\Export\Display` folder.
- Image swatches are exported to `\portals\0\RevindexStorefront\Export\ImageSwatch` folder.

## Import

Prior to importing, make sure have taken a full backup of your system. You also need to make sure the software version from the system you are performing the import should be the same as the version that exported out the data. Then you need to transfer over the dependent files from the previous export to the following import folders. Please note the 0 indicates your portal number.

- Gallery images are imported from `\portals\0\RevindexStorefront\Import\Gallery` folder
- Display templates are imported from `\portals\0\RevindexStorefront\Import\Display` folder.
- Image swatches are imported from `\portals\0\RevindexStorefront\Import\ImageSwatch` folder.

To perform an import, click on the **Import content** from the Storefront Administration module's action menu. You will be prompted to choose the location of your XML file that you previously exported out. Once the import succeeded you should test and verify the system for accuracy. Once it succeeded, you should avoid importing multiple times to the same portal as it will insert multiple entries of the same data. If an import fails, please verify the event log for errors and retry after making the necessary corrections.

# REST API

Revindex Storefront provides a powerful Application Programming Interface (API) that allows you to query, insert, update or delete almost any object in your store programmatically including categories, products, gallery images, distributor, manufacturer, coupons, sales orders, etc.. You may use the API to create specialized screens for your end users, synchronize data between servers or portals or perhaps to export data into your own internal reporting system.

The API is provided in the form of a REST Web service and is therefore easily accessible from any location as long as your network and permissions permit it. Since it follows the REST architecture, which primarily uses the familiar XML/JSON over HTTP, it is also incredibly simple to use by any programming languages such as C#, Java, Javascript, PHP, Ruby, VB.NET or even plain HTML.

Please note you must first enable the **API** feature under **Configuration > General** to access this functionality.

Our goal is to provide a stable platform for the API. Although infrequent, the API specifications may still change over time to reflect new feature additions or fixes. It is your responsibility to test and ensure your applications adapt and follow the latest specifications. If you're using the API, we strongly recommend that you perform internal testing on a development or staging machine after every Storefront upgrades to ensure it is working correctly before upgrading on production.

We recommend that you take a full backup before using any API service.

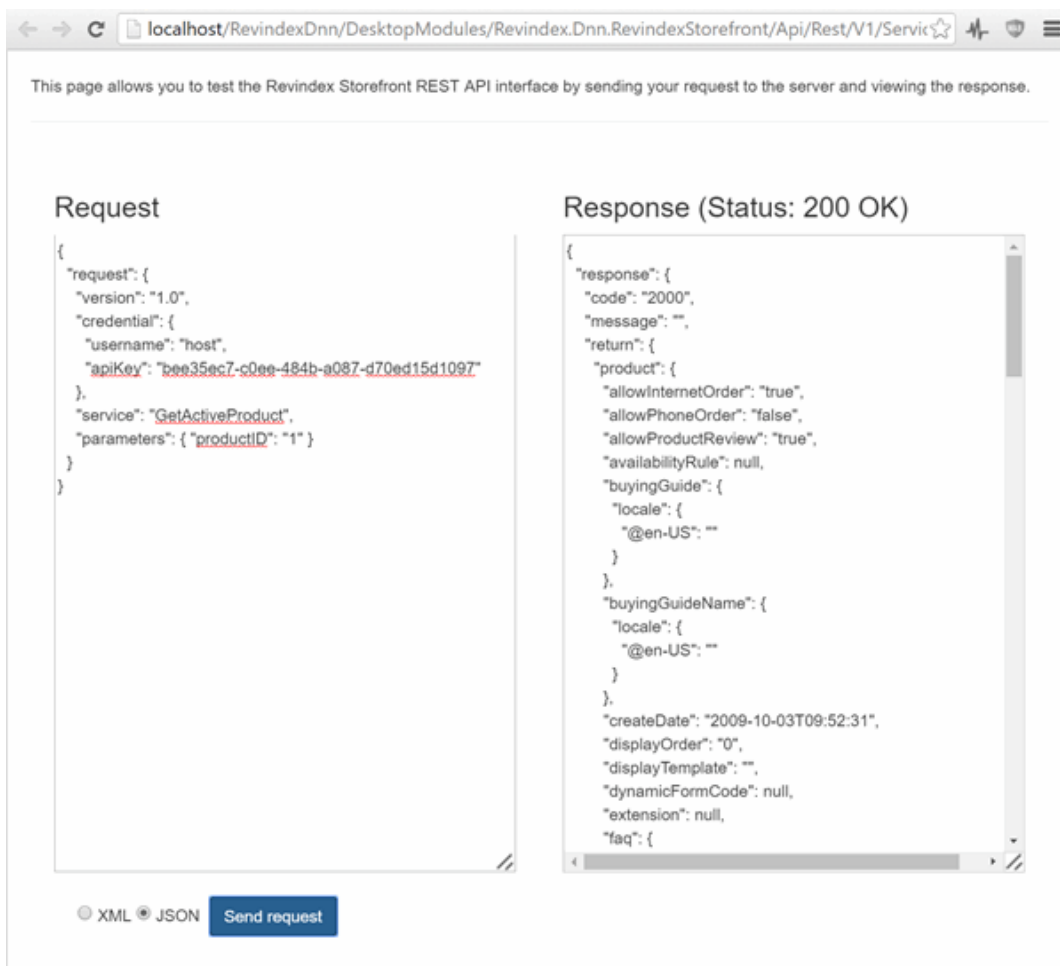
# Overview

You must first enable the **API** feature under **Configuration > General** to access this functionality. Once enabled, you can login as host superuser to access the **Configuration > API** menu to generate your API keys.

You will also need some basic understanding of how the API service uses XML/JSON and the HTTP protocol to transmit data.

## HTTP Transmission

The API service uses Internet HTTP protocol to transmit data like ordinary Web pages. However, it will only accept POST method calls similar to form submissions by a Web page. If a GET request is received (such as navigating directly to the URL of the API service from the Web browser), the API service will return a useful HTML page that you can use, in turn, to send a simple POST request for quick tries (any request made here will affect your environment's data).



Because it uses the same HTTP protocol as your Web site, it follows that the same timeout and server limitations apply to the API service as they do to your Web site. You may want to consider changing the default request timeout for your API call if you expect to initiate a long running request.

For security purposes, it is recommended to use the API service on a HTTPS (SSL) URL address to encrypt your transmissions.

## XML or JSON Format

XML and JSON are simply encoding formats used to transmit the data. Both formats are interchangeable. By default, the REST API will communicate using XML. To communicate using JSON, you need to pass the **"Content-type: application/json"** in your HTTP request header. Throughout this documentation, we'll simply refer the data in XML, but you can expect the equivalent notation is available in JSON.

## Request

The API service expects to receive a HTTP posted data in properly formatted XML or JSON for each method call. Any XML/JSON reserved characters must be properly encoded. A typical request will consist of the following nodes:

Node	Required	Data Type	Description
request	Yes	XML	Root node.
version	Yes	Decimal	Indicates the API version. Currently, you should specify "1.0".
credential	Yes	XML	
username	Yes	String	API username.
apiKey	Yes	String	API Key.
service	Yes	String	Any valid supported service name (e.g. "GetActiveProduct")
parameters	Yes	XML	
param1...	Conditional		Parameter as required by the service being invoked.
param2...	Conditional		Parameter as required by the service being invoked.

## Response

After submitting a request, you can expect to receive a typical HTTP status code response (200 OK, 403 Forbidden, etc.) as you would expect in normal Web requests. The common HTTP status codes are noted below. For a complete list, please consult the W3.org web site (<http://www.w3.org/Protocols/rfc2616/rfc2616-sec10.html>). The first verification is to ensure you are receiving the **200 OK** status to ensure you are at least successfully communicating with the API service over the network.

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden

If the operation succeeded, you can expect to receive the response data in XML format. A typical XML response will consist of the following nodes below.

Node	Data Type	Description
response	XML	Root node
code	Integer	The service response code indicating success or failure.
message	String	The success or failure message.
return	XML	Any data being returned is stored underneath this node.
data1...		Actual data being returned, if any.
data2...		Actual data being returned, if any.

The following table lists the possible service response codes returned in the XML/JSON. It is important to verify the response for the **2000 Success** code to ensure there are no errors.

Code	Description
2000	Success
4001	XML Parsing error
4002	Authentication error
4003	Service execution error.
4004	Service not found.
4005	Access permission error.
4006	Validation error.

# Data Types

The API uses XML/JSON to hold parameter values being passed and returned. You need to follow the data type convention used in the API in order to correctly pass the parameters and consume the return values.

Data Type	Description	Valid Values
Boolean	A logical boolean.	"True" or "False" (without the quotes)
Byte	A Base64 encoded string of the byte array data.	YTM0NZomIzI2OTsmlzM0NTueYQ==
DateTime	A valid date with time component.	2001-01-01T12:00:00
Decimal	A numeric value that can contain a decimal point (x.xx)	12.49
Double	A numeric value that can contain decimal point (x.xx)	3289.3243
GUID	Globally unique identifier.	4F43B5CD-6817-4a64-9B32-640076F2A3A6
Integer	A 32-bit numeric value without decimals.	12345
Long	A 64-bit numeric value without decimals.	432432483244
String	Any text value.	"Hello world" (without the quotes)
TimeSpan	A valid time component.	22:00:00
XML	XML data.	Any valid XML data. The equivalent is also available in JSON notation.
XML Code	XML data containing a "code" element with a "version" and "type" attribute. The enclosed value is the actual formula.	<code version="1.0" type="aspnetmarkup">...</code>
XML Locale	XML element named "locale" with any number of culture codes as attributes to hold the localized string.	<locale en-US="Hello" fr-FR="Bonjour" />
XML Rule	XML data containing a "rule" element with a "version" and "type" attribute. The enclosed value is the actual formula.	<rule version="1.0" type="xslt">...</rule>



# Authentication

Currently, only Administrators and Host users are allowed to connect to the API service. In order to authenticate with the API service, you will need to obtain your **Username** and **API Key** from your configuration panel. The API Key is different than your normal Web site password. Every request must include the credential node in your XML/JSON.

## Examples

The example below authenticates as Administrator while calling the GetActiveProduct service.

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <request>
3   <version>1.0</version>
4   <credential>
5     <username>Administrator</username>
6     <apikey>00000000-0000-0000-0000-000000000000</apikey>
7   </credential>
8   <service>GetActiveProduct</service>
9   <parameters>
10    <productid>1</productid>
11  </parameters>
12 </request>
```

# Services

The following pages describes the available services provided by the API.

Please pay close attention to the request parameters and return data. For security purposes, you can only query or change data belonging to the same portal (e.g. for the given API URL belonging to portal 0, you can only query or affect data from its own portal. You cannot request the CategoryID belonging to a different portal).

# Category

The category is used to group products together in a display list. See ProductCategory

(<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/rest-api-productcategory/rvdwkpvm/section>) section for setting up the relationship between products and categories.

## DeleteCategory

This service is used to delete a Category object.

### Request Parameters

Node	Required	Data Type	Description
categoryID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetCategory

This service is used to query the Category object.

### Request Parameters

Node	Required	Data Type	Description
categoryID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
category	XML	Container node.
availabilityRule	XML Rule	The rule to describe the conditions when the category can be shown.
categoryID	Integer	The object identifier.
categoryKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
createDate	DateTime	Creation date.

description	XML Locale	Localized description.
displayOrder	Integer	Sort order for display.
displayTemplate	String	The associated display template.
extension	XML	Additional data in XML.
metaDescription	XML Locale	Localized meta description.
metaKeywords	XML Locale	Localized meta keywords.
name	XML Locale	Localized name.
pageTitle	XML Locale	Localized page title.
parentCategoryID	Integer	The object identifier of the parent category if this is a child category.
portalID	Integer	
published	Boolean	If category should be published and visible by end users.
updateDate	DateTime	Update date.
urlName	XML Locale	Localized URL name for SEO.

---

## GetCategories

This service is used to get all the Category objects belonging to the portal.

### Request Parameters

None

### Return Data

Node	Data Type	Description
categories	XML	Container node

category	XML	Zero or more category nodes with same data structure as GetCategory service return data.
----------	-----	--

## InsertCategory

This service is used to create a new Category object.

### Request Parameters

Node	Required	Data Type	Description
availabilityRule	No	XML Rule	The rule to describe the conditions when the category can be shown.
categoryKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
description	No	XML Locale	Localized description.
displayOrder	Yes	Integer	Sort order for display.
displayTemplate	No	String	The associated display template.
extension	No	XML	Additional data in XML.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
name	Yes	XML Locale	Localized name.
pageTitle	No	XML Locale	Localized page title.
parentCategoryID	No	Integer	The object identifier of the parent category if this is a child category.
published	Yes	Boolean	If category should be published and visible by end users.
urlName	No	XML Locale	Localized URL name for SEO.

### Return Data

Same as GetCategory service return data.

---

## UpdateCategory

This service is used to update a Category object.

### Request Parameters

Node	Required	Data Type	Description
availabilityRule	No	XML Rule	The rule to describe the conditions when the category can be shown.
categoryID	Yes	Integer	The object identifier.
categoryKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
description	No	XML Locale	Localized description.
displayOrder	Yes	Integer	Sort order for display.
displayTemplate	No	String	The associated display template.
extension	No	XML	Additional data in XML.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
name	Yes	XML Locale	Localized name.
pageTitle	No	XML Locale	Localized page title.
parentCategoryID	No	Integer	The object identifier of the parent category if this is a child category.
published	Yes	Boolean	If category should be published and visible by end users.
urlName	No	XML Locale	Localized URL name for SEO.

### Return Data

Same as GetCategory service return data.



# Coupon

The coupon is a token used to trigger certain promotion rules such as giving a discount for purchases.

## DeleteCoupon

This service is used to delete a Coupon object.

### Request Parameters

Node	Required	Data Type	Description
couponID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetCoupon

This service is used to query the Category object.

### Request Parameters

Node	Required	Data Type	Description
couponID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
coupon	XML	Container node.
active	Boolean	Flag to indicate if coupon is active and can be used.
availabilityRule	XML Rule	The rule to describe the conditions when the coupon can be used.
code	String	The coupon code.
couponID	Integer	The object identifier.
createDate	DateTime	Creation date.
description	XML Locale	Localized description.



inventory	Integer	The number of remaining inventory of coupons.
portalID	Integer	
startDate	DateTime	The start date when the coupon is valid for using.
stopDate	DateTime	The stop date the coupon is no longer valid for using.
updateDate	DateTime	Update date.

---

## GetCoupons

This service is used to get all the Coupon objects belonging to the portal.

### Request Parameters

None

### Return Data

Node	Data Type	Description
coupons	XML	Container node
coupon	XML	Zero or more coupon nodes with same data structure as GetCoupon service return data.

---

## InsertCoupon

This service is used to create a new Coupon object.

### Request Parameters

Node	Required	Data Type	Description
active	Yes	Boolean	Flag to indicate if coupon is active and can be used.
availabilityRule	No	XML Rule	The rule to describe the conditions when the coupon can be used.
code	Yes	String	The coupon code must be unique across your portal.
description	No	XML Locale	Localized description.

inventory	No	Integer	The number of remaining inventory of coupons. Value must be greater or equal to zero.
startDate	No	DateTime	The start date when the coupon is valid for using.
stopDate	No	DateTime	The stop date the coupon is no longer valid for using.

#### Return Data

Same as GetCoupon service return data.

---

## UpdateCoupon

This service is used to update a Coupon object.

#### Request Parameters

Node	Required	Data Type	Description
active	Yes	Boolean	Flag to indicate if coupon is active and can be used.
availabilityRule	No	XML Rule	The rule to describe the conditions when the coupon can be used.
code	Yes	String	The coupon code must be unique across your portal.
couponID	Yes	Integer	The object identifier.
description	No	XML Locale	Localized description.
inventory	No	Integer	The number of remaining inventory of coupons. Value must be greater or equal to zero.
startDate	No	DateTime	The start date when the coupon is valid for using.
stopDate	No	DateTime	The stop date the coupon is no longer valid for using.

#### Return Data

Same as GetCoupon service return data.

# CrosssellProduct

CrosssellProduct is the object relationship associating cross-sell products together.

## DeleteCrosssellProduct

This service is used to delete a CrosssellProduct object.

### Request Parameters

Node	Required	Data Type	Description
crosssellProductID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetCrosssellProduct

This service is used to query the CrosssellProduct object.

### Request Parameters

Node	Required	Data Type	Description
crosssellProductID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
crosssellProduct	XML	Container node.
active	Boolean	
availabilityRule	XML Rule	The rule to describe the conditions when the offer can be purchased.
createDate	DateTime	Creation date.
crosssellProductID	Integer	The object identifier.
description	XML Locale	The description to provide an explanation for the offer.

displayOrder	Integer	Sort order for display.
offerProductID	Integer	The Product object identifier offered.
portalID	Integer	
productID	Integer	Product object identifier in this relation. If null, the cross-sell product is offered for any purchase.
startDate	DateTime	The start date when the offer is available for purchase.
stopDate	DateTime	The stop date when the offer is no longer available for purchase.
title	XML Locale	The offer title to grab the customer's attention.
updateDate	DateTime	Update date.

## GetCrosssellProductsByProduct

This service is used to get all the CrosssellProduct objects belonging to the product.

### Request Parameters

Node	Required	Data Type	Description
productID	No	Integer	The Product object identifier. If null, the cross-sell product is offered for any purchase.

### Return Data

Node	Data Type	Description
crosssellProducts	XML	Container node
crosssellProduct	XML	Zero or more crosssellProduct nodes with same data structure as GetCrosssellProduct service return data.

## InsertCrosssellProduct

This service is used to create a new CrosssellProduct object.

### Request Parameters

Node	Required	Data Type	Description
active	Yes	Boolean	
availabilityRule	No	XML Rule	The rule to describe the conditions when the offer can be purchased.
description	No	XML Locale	The description to provide an explanation for the offer.
displayOrder	Yes	Integer	Sort order for display.
offerProductID	Yes	Integer	The Product object identifier offered.
productID	No	Integer	The Product object identifier. If null, the cross-sell product is offered for any purchase.
startDate	No	DateTime	The start date when the offer is available for purchase.
stopDate	No	DateTime	The stop date when the offer is no longer available for purchase.
title	No	XML Locale	The offer title to grab the customer's attention.

#### Return Data

Same as GetCrosssellProduct service return data.

## UpdateCrosssellProduct

This service is used to update the CrosssellProduct object.

#### Request Parameters

Node	Required	Data Type	Description
active	Yes	Boolean	
availabilityRule	No	XML Rule	The rule to describe the conditions when the offer can be purchased.
crosssellProductID	Yes	Integer	The object identifier.
description	No	XML Locale	The description to provide an explanation for the offer.
displayOrder	Yes	Integer	Sort order for display.

offerProductID	Yes	Integer	The Product object identifier offered.
productID	No	Integer	The Product object identifier. If null, the cross-sell product is offered for any purchase.
startDate	No	DateTime	The start date when the offer is available for purchase.
stopDate	No	DateTime	The stop date when the offer is no longer available for purchase.
title	No	XML Locale	The offer title to grab the customer's attention.

### Return Data

Same as GetCrosssellProduct service return data.

# Distributor

The distributor is usually a company that supplies the product to you.

## DeleteDistributor

This service is used to delete a Distributor object.

### Request Parameters

Node	Required	Data Type	Description
distributorID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetDistributor

This service is used to query the Distributor object.

### Request Parameters

Node	Required	Data Type	Description
distributorID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
distributor	XML	Container node.
createDate	DateTime	Creation date.
description	XML Locale	Localized description.
displayOrder	Integer	Sort order for display.
displayTemplate	String	The associated display template.

distributorID	Integer	The object identifier.
distributorKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
email	String	
extension	XML	Additional data.
metaDescription	XML Locale	Localized meta description.
metaKeywords	XML Locale	Localized meta keywords.
name	XML Locale	Localized name.
pageTitle	XML Locale	Localized page title.
phone	String	
portalID	Integer	
published	Boolean	If distributor should be published and visible by end users.
updateDate	DateTime	Update date.
urlName	XML Locale	Localized URL name for SEO.

---

## GetDistributors

This service is used to get all the Distributor objects belonging to the portal.

### Request Parameters

None

### Return Data

Node	Data Type	Description
distributors	XML	Container node



distributor	XML	Zero or more distributor nodes with same data structure as GetDistributor service return data.
-------------	-----	--

## InsertDistributor

This service is used to create a new Distributor object.

### Request Parameters

Node	Required	Data Type	Description
description	No	XML Locale	Localized description.
displayOrder	Yes	Integer	Sort order for display.
displayTemplate	No	String	The associated display template.
distributorKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
email	No	String	
extension	No	XML	Additional data.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
name	Yes	XML Locale	Localized name.
pageTitle	No	XML Locale	Localized page title.
phone	No	String	
published	Yes	Boolean	If distributor should be published and visible by end users.
urlName	No	XML Locale	Localized URL name for SEO.

### Return Data

Same as GetDistributor service return data.

## UpdateDistributor

This service is used to update a Distributor object.

### Request Parameters

Node	Required	Data Type	Description
description	No	XML Locale	Localized description.
displayOrder	Yes	Integer	Sort order for display.
displayTemplate	No	String	The associated display template.
distributorID	Yes	Integer	The object identifier.
distributorKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
email	No	String	
extension	No	XML	Additional data.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
name	Yes	XML Locale	Localized name.
pageTitle	No	XML Locale	Localized page title.
phone	No	String	
published	Yes	Boolean	If distributor should be published and visible by end users.
urlName	No	XML Locale	Localized URL name for SEO.

### Return Data

Same as GetDistributor service return data.



# Gallery

The gallery is used to store media data such as images.

## DeleteGallery

This service is used to delete a Gallery object.

### Request Parameters

Node	Required	Data Type	Description
galleryID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetGallery

This service is used to query the Gallery object.

### Request Parameters

Node	Required	Data Type	Description
galleryID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
gallery	XML	Container node.
alternateText	XML Locale	
categoryID	Integer	The Category object identifier if this gallery is associated to a category object.
createDate	DateTime	Creation date.
displayOrder	Integer	Sort order for display.
format	Integer	The gallery format type (Detailed = 1, Display = 2, Thumbnail = 3).

galleryID	Integer	The object identifier.
height	Integer	Height in pixels.
mediaFile	XML Locale	The localized file name saved to disk.
mediaData	XML Locale	The localized media data in Base64 encoding. e.g. <locale en-US="TWFuIGIzIGRpc3RXNoZ..." fr-FR="AbSTWFuIG1aXNoZ..." />
mediaType	XML Locale	The localized media type (image/gif, image/jpeg or image/png). e.g. <locale en-US="image/jpeg" fr-FR="image/jpeg" />
portalID	Integer	
productID	Integer	The Product object identifier if this gallery is associated to a product object.
productVariantID	Integer	The ProductVariant object identifier if this gallery is associated to a product variant object.
updateDate	DateTime	Update date.
width	Integer	The width in pixels.

## GetGalleriesByCategory

This service is used to get all the Gallery objects belonging to the category.

### Request Parameters

Node	Required	Data Type	Description
categoryID	Yes	Integer	The Category object identifier.

### Return Data

Node	Data Type	Description
galleries	XML	Container node
gallery	XML	Zero or more gallery nodes with same data structure as GetGallery service return data.

---

## GetGalleriesByProduct

This service is used to get all the Gallery objects belonging to the product.

### Request Parameters

Node	Required	Data Type	Description
productID	Yes	Integer	The Product object identifier.

### Return Data

Node	Data Type	Description
galleries	XML	Container node
gallery	XML	Zero or more gallery nodes with same data structure as GetGallery service return data.

---

## GetGalleriesByProductVariant

This service is used to get all the Gallery objects belonging to the product variant.

### Request Parameters

Node	Required	Data Type	Description
productVariantID	Yes	Integer	The ProductVariant object identifier.

### Return Data

Node	Data Type	Description
galleries	XML	Container node
gallery	XML	Zero or more gallery nodes with same data structure as GetGallery service return data.

---

## InsertGallery

This service is used to create a new Gallery object.

## Request Parameters

Node	Required	Data Type	Description
alternateText	No	XML Locale	
categoryID	No	Integer	The Category object identifier if this gallery is associated to a category object. If you specify this value, you must not specify the productID or productVariantID.
displayOrder	Yes	Integer	Sort order for display.
format	Yes	Integer	The gallery format type (Detailed = 1, Display = 2, Thumbnail = 3).
height	Yes	Integer	Height in pixels.
mediaFile	Yes	XML Locale	The localized file name saved to disk. You can set a random filename using a GUID value.
mediaData	Yes	XML Locale	The localized media data in Base64 encoding.  e.g. <locale en-US="TWFuIGlzlGRpc3RpNoZ..." fr-FR="AbSTWFulp1aXNoZ..." />
mediaType	Yes	XML Locale	The localized media type (image/gif, image/jpeg or image/png).  e.g. <locale en-US="image/jpeg" fr-FR="image/jpeg" />
productID	No	Integer	The Product object identifier if this gallery is associated to a product object. If you specify this value, you must not specify the categoryID or productVariantID.
productVariantID	No	Integer	The ProductVariant object identifier if this gallery is associated to a product variant object. If you specify this value, you must not specify the categoryID or productID.
width	Yes	Integer	The width in pixels.

## Return Data

Same as GetGallery service return data.

# Locale

The following service will retrieve information about the portal languages and cultures available.

## GetLocale

This service is used to query the Locale object.

### Request Parameters

Node	Required	Data Type	Description
code	Yes	String	The locale code (e.g. "en-US" or "fr-FR").

### Return Data

Node	Data Type	Description
locale	XML	
code	String	
createdOnDate	DateTime	
englishName	String	
fallback	String	
isPublished	Boolean	
languageID	Integer	
lastModifiedOnDate	DateTime	
nativeName	String	
portalID	Integer	
text	String	

---

## GetLocales

This service is used to query all the available portal Locales object.

### Request Parameters

None



**Return Data**

<b>Node</b>	<b>Data Type</b>	<b>Description</b>
locales	XML	Container node
locale	XML	Zero or more locale nodes with same data structure as GetLocale service return data.

# Manufacturer

The manufacturer is typically a company that fabricates the product.

## DeleteManufacturer

This service is used to delete a Manufacturer object.

### Request Parameters

Node	Required	Data Type	Description
manufacturerID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetManufacturer

This service is used to query the Manufacturer object.

### Request Parameters

Node	Required	Data Type	Description
manufacturerID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
manufacturer	XML	Container node.
createDate	DateTime	Creation date.
description	XML Locale	Localized description.
displayOrder	Integer	Sort order for display.
displayTemplate	String	The associated display template.
email	String	

extension	XML	Additional data.
manufacturerID	Integer	The object identifier.
manufacturerKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
metaDescription	XML Locale	Localized meta description.
metaKeywords	XML Locale	Localized meta keywords.
name	XML Locale	Localized name.
pageTitle	XML Locale	Localized page title.
phone	String	
portalID	Integer	
published	Boolean	If manufacturer should be published and visible by end users.
updateDate	DateTime	Update date.
urlName	XML Locale	Localized URL name for SEO.

---

## GetManufacturers

This service is used to get all the Manufacturer objects belonging to the portal.

### Request Parameters

None

### Return Data

Node	Data Type	Description
manufacturers	XML	Container node
manufacturer	XML	Zero or more manufacturer nodes with same data structure as GetManufacturer service return data.

---

## InsertManufacturer

This service is used to create a new Manufacturer object.

### Request Parameters

Node	Required	Data Type	Description
description	No	XML Locale	Localized description.
displayOrder	Yes	Integer	Sort order for display.
displayTemplate	No	String	The associated display template.
email	No	String	
extension	No	XML	Additional data.
manufacturerKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
name	Yes	XML Locale	Localized name.
pageTitle	No	XML Locale	Localized page title.
phone	No	String	
published	Yes	Boolean	If manufacturer should be published and visible by end users.
urlName	No	XML Locale	Localized URL name for SEO.

### Return Data

Same as GetManufacturer service return data.

---

## UpdateManufacturer

This service is used to update a Manufacturer object.

### Request Parameters

Node	Required	Data Type	Description
description	No	XML Locale	Localized description.
displayOrder	Yes	Integer	Sort order for display.
displayTemplate	No	String	The associated display template.
manufacturerID	Yes	Integer	The object identifier.
email	No	String	
extension	No	XML	Additional data.
manufacturerKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
name	Yes	XML Locale	Localized name.
pageTitle	No	XML Locale	Localized page title.
phone	No	String	
published	Yes	Boolean	If manufacturer should be published and visible by end users.
urlName	No	XML Locale	Localized URL name for SEO.

### Return Data

Same as GetManufacturer service return data.

# Portal

The following service is useful to query information about the portal.

## GetPortalInfo

This service is used to query the Portal object.

### Request Parameters

None

### Return Data

Node	Data Type	Description
portalInfo	XML	
administratorID	Integer	
administratorRoleID	Integer	
administratorRoleName	String	
adminTabID	Integer	
backgroundFile	String	
bannerAdvertising	Integer	
createdByUserID	Integer	
createdOnDate	DateTime	
cultureCode	String	
currency	String	
defaultLanguage	String	
description	String	
email	String	
expiryDate	DateTime	
footerText	String	
guid	GUID	

homeDirectory	String	
homeTabID	Integer	
hostFee	Double	
hostSpace	Integer	
keyID	Integer	
keyWords	String	
lastModifiedByUserID	Integer	
lastModifiedOnDate	DateTime	
loginTabID	Integer	
logoFile	String	
pageQuota	Integer	
pages	Integer	
portalGroupID	Integer	
portalID	Integer	
portalName	String	
registeredRoleID	Integer	
registeredRoleName	String	
registerTabID	Integer	
searchTabID	Integer	
splashTabID	Integer	
superTabID	Integer	
userQuota	Integer	
userRegistration	Integer	
users	Integer	
userTabID	Integer	

version	String	
---------	--------	--



# Product

## DeleteProduct

This service is used to delete a Product object.

### Request Parameters

Node	Required	Data Type	Description
productID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetActiveProduct

This service is used to query the Product object.

### Request Parameters

Node	Required	Data Type	Description
productID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
product	XML	Container node.
allowInternetOrder	Boolean	Allow taking orders over the Internet.
allowPhoneOrder	Boolean	Allow taking order over the phone.
allowProductReview	Boolean	Allow users to write review for this product.
availabilityRule	XML Rule	The rule to describe the conditions when the product can be purchased.
buyingGuide	XML Locale	Localized description.

buyingGuideName	XML Locale	Override buying guide description name.
createDate	DateTime	Creation date.
displayOrder	Integer	Sort order for display.
displayTemplate	String	The associated display template.
dynamicFormCode	XML Code	Custom HTML or input form elements.
extension	XML	Additional data in XML.
faq	XML Locale	Localized description.
faqName	XML Locale	Override FAQ description name.
featured	Boolean	Localized description.
metaDescription	XML Locale	Localized meta description.
metaKeywords	XML Locale	Localized meta keywords.
name	XML Locale	Localized name.
overview	XML Locale	Localized description.
overviewName	XML Locale	Override overview description name.
pageTitle	XML Locale	Localized page title.
portalID	Integer	
productDetailUrl	String	Specify a custom product detail page for this product or set to empty or null to use the default product detail page. Enter a valid Tab ID number for the page.
productID	Integer	The object identifier.
productKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.

productType	Integer	The type of product (Regular = 1).
published	Boolean	If product should be published and visible by end users.
redirectUrl	String	Redirect product detail page to URL location. Useful for maintaining SEO value for a discontinued product.
sellerID	Integer	Indicate if this product belongs to a seller.
showAddToCart	Boolean	
showAddToWishList	Boolean	
showBuyNow	Boolean	
showInventory	Boolean	
showMSRP	Boolean	
showPrice	Boolean	
showQuantity	Boolean	
showRewardPoints	Boolean	
showSavings	Boolean	
showSeeDetails	Boolean	
showSKU	Boolean	
showSocialShare	Boolean	
showUpdate	Boolean	
specifications	XML Locale	Localized description.
specificationsName	XML Locale	Override specifications description name.
startDate	DateTime	The start date when the product is available for purchase.
stopDate	DateTime	The stop date when the product is no longer available for purchase.
summary	XML Locale	Localized description.

terms	XML Locale	Localized description.
termsName	XML Locale	Override terms description name.
updateDate	DateTime	Update date.
urlName	XML Locale	Localized URL name for SEO.

## GetActiveProducts

This service is used to get all the Product objects belonging to the portal.

### Request Parameters

None

### Return Data

Node	Data Type	Description
products	XML	Container node
product	XML	Zero or more product nodes with same data structure as GetActiveProduct service return data.

## InsertProduct

This service is used to create a new Product object.

### Request Parameters

Node	Required	Data Type	Description
allowInternetOrder	Yes	Boolean	Allow taking orders over the Internet.
allowPhoneOrder	Yes	Boolean	Allow taking order over the phone.
allowProductReview	Yes	Boolean	Allow users to write review for this product.
availabilityRule	No	XML Rule	The rule to describe the conditions when the product can be purchased.

buyingGuide	No	XML Locale	Localized description.
buyingGuideName	No	XML Locale	Override buying guide description name.
displayOrder	Yes	Integer	Sort order for display.
displayTemplate	No	String	The associated display template.
dynamicFormCode	No	XML Code	Custom HTML or input form elements.
extension	No	XML	Additional data in XML.
faq	No	XML Locale	Localized description.
faqName	No	XML Locale	Override FAQ description name.
featured	Yes	Boolean	Localized description.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
name	Yes	XML Locale	Localized name.
overview	No	XML Locale	Localized description.
overviewName	No	XML Locale	Override overview description name.
pageTitle	No	XML Locale	Localized page title.
productDetailUrl	No	String	Specify a custom product detail page for this product or set to empty or null to use the default product detail page. Enter a valid Tab ID number for the page.
productKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.

productType	Yes	Integer	The type of product (Regular = 1).
published	Yes	Boolean	If product should be published and visible by end users.
redirectUrl	No	String	URL or Tab ID number.
sellerID	No	Integer	Indicate if this product belongs to a seller.
showAddToCart	Yes	Boolean	
showAddToWishList	Yes	Boolean	
showBuyNow	Yes	Boolean	
showInventory	Yes	Boolean	
showMSRP	Yes	Boolean	
showPrice	Yes	Boolean	
showQuantity	Yes	Boolean	
showRewardPoints	Yes	Boolean	
showSavings	Yes	Boolean	
showSeeDetails	Yes	Boolean	
showSKU	Yes	Boolean	
showSocialShare	Yes	Boolean	
showUpdate	Yes	Boolean	
specifications	No	XML Locale	Localized description.
specificationsName	No	XML Locale	Override specifications description name.
startDate	No	DateTime	The start date when the product is available for purchase.
stopDate	No	DateTime	The stop date when the product is no longer available for purchase.
summary	No	XML Locale	Localized description.
terms	No	XML Locale	Localized description.

termsName	No	XML Locale	Override terms description name.
urlName	No	XML Locale	Localized URL name for SEO.

### Return Data

Same as GetActiveProduct service return data.

---

## UpdateProduct

This service is used to update a Product object.

### Request Parameters

Node	Required	Data Type	Description
allowInternetOrder	Yes	Boolean	Allow taking orders over the Internet.
allowPhoneOrder	Yes	Boolean	Allow taking order over the phone.
allowProductReview	Yes	Boolean	Allow users to write review for this product.
availabilityRule	No	XML Rule	The rule to describe the conditions when the product can be purchased.
buyingGuide	No	XML Locale	Localized description.
buyingGuideName	No	XML Locale	Override buying guide description name.
displayOrder	Yes	Integer	Sort order for display.
displayTemplate	No	String	The associated display template.
dynamicFormCode	No	XML Code	Custom HTML or input form elements.
extension	No	XML	Additional data in XML.
faq	No	XML Locale	Localized description.
faqName	No	XML Locale	Override FAQ description name.

featured	Yes	Boolean	Localized description.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
name	Yes	XML Locale	Localized name.
overview	No	XML Locale	Localized description.
overviewName	No	XML Locale	Override overview description name.
pageTitle	No	XML Locale	Localized page title.
productDetailUrl	No	String	Specify a custom product detail page for this product or set to empty or null to use the default product detail page. Enter a valid Tab ID number for the page.
productID	Yes	Integer	The object identifier.
productKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
productType	Yes	Integer	The type of product (Regular = 1).
published	Yes	Boolean	If product should be published and visible by end users.
redirectUrl	No	String	URL or Tab ID number.
sellerID	No	Integer	Indicate if this product belongs to a seller.
showAddToCart	Yes	Boolean	
showAddToWishList	Yes	Boolean	
showBuyNow	Yes	Boolean	
showInventory	Yes	Boolean	
showMSRP	Yes	Boolean	
showPrice	Yes	Boolean	
showQuantity	Yes	Boolean	



showRewardPoints	Yes	Boolean	
showSavings	Yes	Boolean	
showSeeDetails	Yes	Boolean	
showSKU	Yes	Boolean	
showSocialShare	Yes	Boolean	
showUpdate	Yes	Boolean	
specifications	No	XML Locale	Localized description.
specificationsName	No	XML Locale	Override specifications description name.
startDate	No	DateTime	The start date when the product is available for purchase.
stopDate	No	DateTime	The stop date when the product is no longer available for purchase.
summary	No	XML Locale	Localized description.
terms	No	XML Locale	Localized description.
termsName	No	XML Locale	Override terms description name.
urlName	No	XML Locale	Localized URL name for SEO.

### Return Data

Same as GetActiveProduct service return data.

# ProductAttribute

A ProductAttribute is the attribute value defined for a product or product variant usually seen under the specifications tab in the product detail page.

## DeleteProductAttribute

This service is used to delete a ProductAttribute object.

### Request Parameters

Node	Required	Data Type	Description
productAttributeID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetProductAttribute

This service is used to query the ProductAttribute object.

### Request Parameters

Node	Required	Data Type	Description
productAttributeID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productAttribute	XML	Container node.
booleanValue	Boolean	Boolean type value.
createDate	DateTime	Creation date.
decimalValue	Decimal	Decimal type value.
integerValue	Integer	Integer type value.
productAttributeDefinitionID	Integer	The ProductAttributeDefinition object identifier.

productAttributeID	Integer	The object identifier.
productID	Integer	The Product object identifier if attribute belongs to product.
productVariantID	Integer	The ProductVariant object identifier if attribute belongs to product variant.
selectionValue	String	Pipe delimited list of integer selection values.
stringValue	XML Locale	Localized string type value.
updateDate	DateTime	Update date.

## GetProductAttributesByProduct

This service is used to get all the ProductAttribute objects belonging to the product.

### Request Parameters

Node	Required	Data Type	Description
productID	Yes	Integer	The Product object identifier.

### Return Data

Node	Data Type	Description
productAttributes	XML	Container node
productAttribute	XML	Zero or more productAttribute nodes with same data structure as GetProductAttribute service return data.

## GetProductAttributesByProductVariant

This service is used to get all the ProductAttribute objects belonging to the product variant.

### Request Parameters

Node	Required	Data Type	Description
productVariantID	Yes	Integer	The ProductVariant object identifier.

### Return Data

Node	Data Type	Description
productAttributes	XML	Container node
productAttribute	XML	Zero or more productAttribute nodes with same data structure as GetProductAttribute service return data.

## InsertProductAttribute

This service is used to create a new ProductAttribute object.

### Request Parameters

Node	Required	Data Type	Description
booleanValue	No	Boolean	Boolean type value. If you specify a value here, you must not specify the decimalValue, integerValue, selectionValue or stringValue.
decimalValue	No	Decimal	Decimal type value. If you specify a value here, you must not specify the booleanValue, integerValue, selectionValue or stringValue.
integerValue	No	Integer	Integer type value. If you specify a value here, you must not specify the booleanValue, decimalValue, selectionValue or stringValue.
productAttributeDefinitionID	Yes	Integer	The ProductAttributeDefinition object identifier.
productID	No	Integer	The Product object identifier if attribute belongs to product. If you specify the productID, you must not specify the productVariantID.
productVariantID	No	Integer	The ProductVariant object identifier if attribute belongs to product variant. If you specify the productVariantID, you must not specify the productID.
selectionValue	No	String	Pipe delimited list of integer selection values. Value must correspond to the possible ProductAttributeDefinitionSelectionID values. If you specify a value here, you must not specify the booleanValue, decimalValue, integerValue or stringValue.
stringValue	No	XML Locale	Localized string type value. If you specify a value here, you must not specify the booleanValue, decimalValue, integerValue or selectionValue.

### Return Data

Same as GetProductAttribute service return data.

# ProductAttributeDefinition

A ProductAttributeDefinition is used to describe the properties of a product attribute.

## GetProductAttributeDefinition

This service is used to query the ProductAttributeDefinition object.

### Request Parameters

Node	Required	Data Type	Description
productAttributeDefinitionID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productAttributeDefinition	XML	
comparable	Boolean	Determines if this attribute type can be used for product comparison.
createdDate	DateTime	
description	XML Locale	
displayOrder	Integer	
filterable	Boolean	Product list can filter by this attribute type.
helpText	XML Locale	Help displayed in tooltip.
name	XML Locale	
portalID	Integer	
productAttributeDefinitionID	Integer	The object identifier.
productAttributeDefinitionKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
productAttributeGroupID	Integer	The attribute type belongs to a ProductAttributeGroup.

productAttributeType	Integer	Boolean = 1,Integer = 2, Decimal = 3, String = 4, Selection = 5
published	Boolean	
searchable	Boolean	Product search can index this attribute.
stepSize	Decimal	The incremental change for decimal attribute type input.
updateDate	DateTime	

## GetProductAttributeDefinitions

This service is used to query all the ProductAttributeDefinition objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
productAttributeDefinitions	XML	Container node
productAttributeDefinition	XML	Zero or more ProductAttributeDefinition nodes with same data structure as GetProductAttributeDefinition service return data.

# ProductAttributeDefinitionSelection

A ProductAttributeDefinitionSelection is used to describe the selectable options of a product attribute.

## GetProductAttributeDefinitionSelection

This service is used to query the ProductAttributeDefinitionSelection object.

### Request Parameters

Node	Required	Data Type	Description
productAttributeDefinitionSelectionID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productAttributeDefinitionSelection	XML	
createdDate	DateTime	
displayOrder	Integer	
productAttributeDefinitionID	Integer	
productAttributeDefinitionSelectionID	Integer	The object identifier.
text	XML Locale	The text to display.
updateDate	DateTime	

## GetProductAttributeDefinitionSelections

This service is used to query all the ProductAttributeDefinitionSelection objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
productAttributeDefinitionSelections	XML	Container node



productAttributeDefinitionSelection	XML	Zero or more ProductAttributeDefinitionSelection nodes with same data structure as GetProductAttributeDefinitionSelection service return data.
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# ProductAttributeGroup

A ProductAttributeGroup is used to group ProductAttributeDefinitions.

## GetProductAttributeGroup

This service is used to query the ProductAttributeGroup object.

### Request Parameters

Node	Required	Data Type	Description
productAttributeGroupID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productAttributeGroup	XML	
createDate	DateTime	
description	XML Locale	
displayOrder	Integer	
name	XML Locale	
portalID	Integer	
productAttributeGroupID	Integer	The object identifier.
updateDate	DateTime	

## GetProductAttributeGroups

This service is used to query all the ProductAttributeGroup objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
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productAttributeGroups	XML	Container node
productAttributeGroup	XML	Zero or more ProductAttributeGroup nodes with same data structure as GetProductAttributeGroup service return data.

# ProductCategory

ProductCategory is the relationship that joins the Product to the Category object.

## DeleteProductCategory

This service is used to delete a ProductCategory object.

### Request Parameters

Node	Required	Data Type	Description
productCategoryID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetProductCategory

This service is used to query the ProductCategory object.

### Request Parameters

Node	Required	Data Type	Description
productCategoryID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productCategory	XML	Container node.
categoryID	Integer	The Category object identifier.
createDate	DateTime	Creation date.
defaultCategory	Boolean	Specify if this is the default category association for this product. The default category is shown on the breadcrumb if customer arrived on the product detail page without selecting a category, manufacturer, distributor or coming from a search.
productCategoryID	Integer	The object identifier.

productID	Integer	The Product object identifier.
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## GetProductCategoriesByCategory

This service is used to get all the ProductCategory objects belonging to the category.

### Request Parameters

Node	Required	Data Type	Description
categoryID	Yes	Integer	The Category object identifier.

### Return Data

Node	Data Type	Description
productCategories	XML	Container node
productCategory	XML	Zero or more productCategory nodes with same data structure as GetProductCategory service return data.

## GetProductCategoriesByPortal

This service is used to get all the ProductCategory objects belonging to the category.

### Request Parameters

None

### Return Data

Node	Data Type	Description
productCategories	XML	Container node
productCategory	XML	Zero or more productCategory nodes with same data structure as GetProductCategory service return data.

## GetProductCategoriesByProduct

This service is used to get all the ProductCategory objects belonging to the product.

#### Request Parameters

Node	Required	Data Type	Description
productID	Yes	Integer	The Product object identifier.

#### Return Data

Node	Data Type	Description
productCategories	XML	Container node
productCategory	XML	Zero or more productCategory nodes with same data structure as GetProductCategory service return data.

---

### InsertProductCategory

This service is used to create a new ProductCategory object.

#### Request Parameters

Node	Required	Data Type	Description
categoryID	Yes	Integer	The Category object identifier.
defaultCategory	Yes	Boolean	Specify if this is the default category association for this product. The default category is shown on the breadcrumb if customer arrived on the product detail page without selecting a category, manufacturer, distributor or coming from a search.
productID	Yes	Integer	The Product object identifier.

#### Return Data

Same as GetProductCategory service return data.

# ProductComponent

The ProductComponent is used to group the product parts in a bundled product.

## DeleteProductComponent

This service is used to delete a ProductComponent object.

### Request Parameters

Node	Required	Data Type	Description
productComponentID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetActiveProductComponent

This service is used to query the ProductComponent object.

### Request Parameters

Node	Required	Data Type	Description
productComponentID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productComponent	XML	Container node.
createDate	DateTime	Creation date.
displayOrder	Integer	Sort order for display.
componentType	Integer	The type of component. Implicit = 1, Explicit = 2, Multiple = 3, Single = 4
name	XML Locale	Localized name.
productComponentID	Integer	The object identifier.

productComponentKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
productVariantID	Integer	The product variant object identifier associated to this component.
updateDate	DateTime	Update date.

## GetActiveProductComponentsByProductVariant

This service is used to get all the ProductComponent objects belonging to the ProductVariant.

### Request Parameters

Node	Required	Data Type	Description
productVariantID	Yes	Integer	The ProductVariant object identifier.

### Return Data

Node	Data Type	Description
productComponents	XML	Container node
productComponent	XML	Zero or more productComponent nodes with same data structure as GetActiveProductComponent service return data.

## InsertProductComponent

This service is used to create a new ProductComponent object.

### Request Parameters

Node	Required	Data Type	Description
displayOrder	Yes	Integer	Sort order for display.
componentType	Yes	Integer	The type of component. Implicit = 1, Explicit = 2, Multiple = 3, Single = 4



name	Yes	XML Locale	Localized name.
productComponentKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
productVariantID			The reference ProductVariant identifier this ProductComponent belongs to.

#### **Return Data**

Same as GetActiveProductComponent service return data.

# ProductPart

The ProductPart is used to indicate the product variant participating for sale in a bundled product.

## DeleteProductPart

This service is used to delete a ProductPart object.

### Request Parameters

Node	Required	Data Type	Description
productPartID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetActiveProductPart

This service is used to query the ProductPart object.

### Request Parameters

Node	Required	Data Type	Description
productPartID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productPart	XML	Container node.
createDate	DateTime	Creation date.
defaultQuantity	Integer	The default quantity for the product part.
displayOrder	Integer	Sort order for display.
maxOrderQuantity	Integer	The maximum quantity that can be ordered in this bundle.
minOrderQuantity	Integer	The minimum quantity that can be ordered in this bundle.
modifierRule	XML Rule	Product part modifier.

productComponentID	Integer	Reference the corresponding ProductComponent by its object identifier.
selected	Boolean	Indicate if the product part is selected and participating in the bundle.
showPrice	Boolean	Indicate if the price is displayed to the customer.
showQuantity	Boolean	Indicate if the customer can override the quantity.
updateDate	DateTime	Update date.

## GetActiveProductPartsByProductComponent

This service is used to get all the ProductPart objects belonging to the ProductComponent.

### Request Parameters

Node	Required	Data Type	Description
productComponentID	Yes	Integer	The ProductComponent object identifier.

### Return Data

Node	Data Type	Description
productParts	XML	Container node
productPart	XML	Zero or more productPart nodes with same data structure as GetActiveProductPart service return data.

## InsertProductPart

This service is used to create a new ProductPart object.

### Request Parameters

Node	Required	Data Type	Description
defaultQuantity	Yes	Integer	Indicate the default quantity.
displayOrder	Yes	Integer	Sort order for display.

maxOrderQuantity	No	Integer	The maximum quantity that can be ordered in this bundle.
minOrderQuantity	No	Integer	The minimum quantity that can be ordered in this bundle.
modifierRule	No	XML Rule	The product part modifier rule.
productComponentID	Yes	Integer	The reference ProductComponent identifier this ProductPart belongs to.
selected	Yes	Boolean	Indicate if the product part is selected and participating in the bundle.
showPrice	Yes	Boolean	Indicate if the price is displayed to the customer.
showQuantity	Yes	Boolean	Indicate if the customer can override the quantity.

### Return Data

Same as GetActiveProductPart service return data.

# ProductVariant

## DeleteProductVariant

This service is used to delete a ProductVariant object.

### Request Parameters

Node	Required	Data Type	Description
productVariantID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetActiveProductVariant

This service is used to query the ProductVariant object.

### Request Parameters

Node	Required	Data Type	Description
productVariantID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productVariant	XML	Container node.
allowableOrderQuantity	String	The distinct quantities you want to allow, separated by a pipe " " delimiter. Use a dash to denote a range of quantities. For example, if you enter "1 3 5-7 9" in the text box, only quantities 1, 3, 5, 6, 7 and 9 will be allowed.
allowPartialReturn	Boolean	Indicate if this product can returned wholly or partially.
allowProductComparison	Boolean	Allow this variant for product comparison.
allowRecurringGroupOrders	Boolean	Allow this variant to be grouped together with other similar orders if this variant is due for recurring.

allowRewardsPoint	Boolean	Allow this variant to participate in rewards point program.
availabilityRule	XML Rule	The rule to describe the conditions when the product can be purchased.
basePrice	Decimal	The base price.
bookingRule	XML Rule	The rule to describe booking conditions such as exclusion dates.
buyingGuide	XML Locale	Localized description.
buyingGuideName	XML Locale	Override the default buying guide description name.
createDate	DateTime	Creation date.
creditInterval	Integer	The amount of time to allow crediting a return.
creditIntervalType	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
depth	Decimal	Product depth usually including packaging for shipping calculation (cm).
displayOrder	Integer	Sort order for display.
distributorID	Integer	The Distributor object identifier.
distributorSKU	String	
downloadFile	String	The URL, file or page associated to the product.
dynamicFormCode	XML Code	Custom HTML or input form elements.
exchangeInterval	Integer	The amount of time to allow exchanging a return.
exchangeIntervalType	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
extension	XML	Additional data in XML.
faq	XML Locale	Localized description.
faqName	XML Locale	Override the default FAQ description name.
handlingPrice	Decimal	Handling price may be used by handling rule.
hasSerialNumber	Boolean	Indicate if this product has a serial number for return purposes.
height	Decimal	Product height usually including packaging for shipping calculation (cm).

inventory	Integer	Product inventory.
inventoryEmptyBehavior		How product behaves when inventory is empty.  DisallowOrder = 1 DisableProduct = 2 AllowBackorder = 3
inventoryUnitType	Integer	Indicate how inventory is treated especially in the case of a booking product. For regular product, the unit type should be Constant.  Constant = 1 Year = 2 Month = 3 Week = 4 Day = 5 Hour = 6
manufacturerID	Integer	The Manufacturer object identifier.
manufacturerSKU	String	
maxInventory	Integer	The desirable max inventory to keep.
maxOrderQuantity	Integer	Maximum quantity per order.
maxOrderUnit	Integer	Maximum reservable units for a booking product.
minOrderUnit	Integer	Minimum reservable units for a booking product.
metaDescription	XML Locale	Localized meta description.
metaKeywords	XML Locale	Localized meta keywords.
maxBookingDate	DateTime	
maxBookingTime	TimeSpan	
minBookingDate	DateTime	
minBookingTime	TimeSpan	
minInventory	Integer	The desirable min inventory to keep.
minOrderQuantity	Integer	Minimum quantity per order.
modifierRule	XML Rule	Product modifier rule.

msrp	Decimal	Manufacturer suggested retail price.
name	XML Locale	Localized name.
overview	XML Locale	Localized description.
overviewName	XML Locale	Override the default overview description name.
packageType	Integer	Package type for shipping calculation (Unspecified = 1, Envelope = 1000, Box = 2000, Bag = 3000, Tube = 4000).
pageTitle	XML Locale	Localized page title.
portalID	Integer	
preorderInterval	Integer	The days to preorder a recurring order ahead of time.
priceText	XML Locale	Any text specified here will be shown to the customer instead of the actual price.
productCost	Decimal	The product cost.
productID	Integer	The Product object identifier.
productVariantID	Integer	The object identifier.
productVariantKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
promotionRule	XML Rule	Product promotion rule.
promotionStartDate	DateTime	Product promotion start date.
promotionStopDate	DateTime	Product promotion stop date.
published	Boolean	Allow product to be displayed.
recurringInterval	Integer	The recurring interval.
recurringIntervalType	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
recurringMaxRepeat	Integer	The number of times to repeat the recurring product. Empty indicates repeat perpetually.
recurringMinRepeat	Integer	The minimum number of times that must be repeated before allowing customers from cancelling future recurring orders.



refundInterval	Integer	The amount of time to allow refunding a return.
refundIntervalType	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
repairInterval	Integer	The amount of time to allow repairing a return.
repairIntervalType	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
requireHandling	Boolean	Indicate if product requires handling.
requireShipping	Boolean	Indicate if product requires shipping.
rewardPoints	Integer	The custom number of rewards points to award.
rightDefinitionID	Integer	The RightDefinition identifier to issue upon purchase.If this value is set, the customer will be issued the access right when order is paid or completed.
salesType	Integer	Determine if product can be purchased at the listed price or must be quoted first.  Sale = 1 Quoted = 2
shippingCode	String	Shipping code may be used by your shipping provider to classify this package to obtain a more accurate quote.
shippingPrice	Decimal	Shipping price may be used by shipping rule.
sku	String	
specifications	XML Locale	Localized description.
specificationsName	XML Locale	Override the default specifications description name.
startDate	DateTime	The start date when the product is available for purchase.
startRecurringDate	DateTime	Initialize a different recurring start date.
startRecurringInterval	Integer	Initialize a different recurring start date by interval amount.
startRecurringIntervalType	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
stopDate	DateTime	The stop date when the product is no longer available for purchase.
summary	XML Locale	Localized description.
taxClassID	Integer	TaxClass object identifier.

terms	XML Locale	Localized description.
termsName	XML Locale	Override the default terms description name.
universalProductCode	String	Universal product code.
updateDate	DateTime	Update date.
urlName	XML Locale	Localized URL name for SEO.
voucherDefinitionID	Integer	If this value is set, a new voucher of this type will be automatically generated and emailed to customer when order is paid or completed.
warehouseID	Integer	Indicate if this product is stored at a warehouse.
weight	Decimal	Product weight usually including packaging for shipping calculation (g).
width	Decimal	Product width usually including packaging for shipping calculation (cm).

## GetActiveProductVariants

This service is used to get all the ProductVariant objects belonging to the product.

### Request Parameters

Node	Required	Data Type	Description
productID	Yes	Integer	The Product object identifier.

### Return Data

Node	Data Type	Description
productVariants	XML	Container node
productVariant	XML	Zero or more productVariant nodes with same data structure as GetActiveProductVariant service return data.

## GetActiveProductVariantsByPortal

This service is used to get all the ProductVariant objects by portal.

### Request Parameters

None

### Return Data

Node	Data Type	Description
productVariants	XML	Container node
productVariant	XML	Zero or more productVariant nodes with same data structure as GetActiveProductVariant service return data.

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## GetActiveProductVariantsBySku

This service is used to get all the ProductVariant objects with matching SKU.

### Request Parameters

Node	Required	Data Type	Description
sku	Yes	String	The SKU value.

### Return Data

Node	Data Type	Description
productVariants	XML	Container node
productVariant	XML	Zero or more productVariant nodes with same data structure as GetActiveProductVariant service return data.

---

## InsertProductVariant

This service is used to create a new ProductVariant object.

### Request Parameters

Node	Required	Data Type	Description
------	----------	-----------	-------------

allowableOrderQuantity	No	String	The distinct quantities you want to allow, separated by a pipe " " delimiter. Use a dash to denote a range of quantities. For example, if you enter "1 3 5-7 9" in the text box, only quantities 1, 3, 5, 6, 7 and 9 will be allowed.
allowPartialReturn	Yes	Boolean	Indicate if this product can be returned wholly or partially.
allowProductComparison	Yes	Boolean	Allow this variant for product comparison.
allowRecurringGroupOrders	Yes	Boolean	Allow this variant to be grouped together with other similar orders if this variant is due for recurring.
allowRewardsPoint	Yes	Boolean	Allow this variant to participate in rewards point program.
availabilityRule	No	XML Rule	The rule to describe the conditions when the product can be purchased.
basePrice	Yes	Decimal	The base price.
bookingRule	No	XML Rule	The rule to describe booking conditions such as exclusion dates.
buyingGuide	No	XML Locale	Localized description.
buyingGuideName	No	XML Locale	Override the default buying guide description name.
creditInterval	No	Integer	The amount of time allow to credit a return.
creditIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
depth	Yes	Decimal	Product depth usually including packaging for shipping calculation (cm).
displayOrder	Yes	Integer	Sort order for display.
distributorID	No	Integer	The Distributor object identifier.
distributorSKU	No	String	
downloadFile	No	String	The URL, file or page associated to the product.
dynamicFormCode	No	XML Code	Custom HTML or input form elements.
exchangeInterval	No	Integer	The amount of time to allow exchanging a return.
exchangeIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).

extension	No	XML	Additional data in XML.
faq	No	XML Locale	Localized description.
faqName	No	XML Locale	Override the default FAQ description name.
handlingPrice	Yes	Decimal	Handling price may be used by handling rule.
hasSerialNumber	Yes	Boolean	Indicate if this product has serial number for return purposes.
height	Yes	Decimal	Product height usually including packaging for shipping calculation (cm).
inventory	No	Integer	Product inventory.
inventoryEmptyBehavior	Yes	Integer	How product behaves when inventory is empty.  DisallowOrder = 1 DisableProduct = 2 AllowBackorder = 3
inventoryUnitType	Yes	Integer	Indicate how inventory is treated especially in the case of a booking product. For regular product, the unit type should be Constant.  Constant = 1 Year = 2 Month = 3 Week = 4 Day = 5 Hour = 6
manufacturerID	No	Integer	The Manufacturer object identifier.
manufacturerSKU	No	String	
maxBookingDate	No	DateTime	
maxBookingTime	No	TimeSpan	
minBookingDate	No	DateTime	
minBookingTime	No	TimeSpan	
maxInventory	No	Integer	The desirable max inventory to keep.
maxOrderQuantity	No	Integer	Maximum quantity per order.

maxOrderUnit	No	Integer	Maximum reservable units for a booking product.
minOrderUnit	No	Integer	Minimum reservable units for a booking product.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
minInventory	No	Integer	The desirable min inventory to keep.
minOrderQuantity	No	Integer	Minimum quantity per order.
modifierRule	No	XML Rule	Product modifier rule.
msrp	No	Decimal	Manufacturer suggested retail price.
name	No	XML Locale	Localized name.
overview	No	XML Locale	Localized description.
overviewName	No	XML Locale	Override the default overview description name.
packageType	Yes	Integer	Package type for shipping calculation (Unspecified = 1, Envelope = 1000, Box = 2000, Bag = 3000, Tube = 4000).
pageTitle	No	XML Locale	Localized page title.
preorderInterval	Yes	Integer	The days to preorder a recurring order ahead of time.
priceText	No	XML Locale	Any text specified here will be shown to the customer instead of the actual price.
productCost	No	Decimal	The product cost.
productID	Yes	Integer	The Product object identifier.
productVariantKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
promotionRule	No	XML Rule	Product promotion rule.
promotionStartDate	No	DateTime	Product promotion start date.
promotionStopDate	No	DateTime	Product promotion stop date.

published	Yes	Boolean	Allow product to be displayed.
recurringInterval	Yes	Integer	The recurring interval. A zero value indicates non-recurring.
recurringIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
recurringMaxRepeat	No	Integer	The number of times to repeat the recurring product. Empty indicates repeat perpetually.
recurringMinRepeat	No	Integer	The minimum number of times that must be repeated before allowing customers from cancelling future recurring orders.
refundInterval	No	Integer	The amount of time allowed to refund a return.
refundIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
repairInterval	No	Integer	The amount of time allowed to repair a return.
repairIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
requireHandling	Yes	Boolean	Indicate if product requires handling.
requireShipping	Yes	Boolean	Indicate if product requires shipping.
rewardPoints	No	Integer	The custom number of rewards points to award.
rightDefinitionID	No	Integer	The RightDefinition identifier to issue upon purchase.If this value is set, the customer will be issued the access right when order is paid or completed.
salesType	Yes	Integer	Determine if product can be purchased at the listed price or must be quoted first.  Sale = 1 Quoted = 2
shippingCode	No	String	Shipping code may be used by your shipping provider to classify this package to obtain a more accurate quote.
shippingPrice	Yes	Decimal	Shipping price may be used by shipping rule.
sku	No	String	
specifications	No	XML Locale	Localized description.
specificationsName	No	XML Locale	Override the default specifications description name.
startDate	No	DateTime	The start date when the product is available for purchase.

startRecurringDate	No	DateTime	Initialize a different recurring start date.
startRecurringInterval	Yes	Integer	Initialize a different recurring start date by interval amount.
startRecurringIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
stopDate	No	DateTime	The stop date when the product is no longer available for purchase.
summary	No	XML Locale	Localized description.
taxClassID	No	Integer	TaxClass object identifier.
terms	No	XML Locale	Localized description.
termsName	No	XML Locale	Override the default terms description name.
universalProductCode	No	String	Universal product code.
urlName	No	XML Localized	Localized URL name for SEO.
voucherDefinitionID	No	Integer	If this value is set, a new voucher of this type will be automatically generated and emailed to customer when order is paid or completed.
warehouseID	No	Integer	Indicate if this product is stored at a warehouse.
weight	Yes	Decimal	Product weight usually including packaging for shipping calculation (g).
width	Yes	Decimal	Product width usually including packaging for shipping calculation (cm).

### Return Data

Same as GetActiveProductVariant service return data.

## UpdateProductVariant

This service is used to update a ProductVariant object.

### Request Parameters

Node	Required	Data Type	Description
------	----------	-----------	-------------



allowableOrderQuantity	No	String	The distinct quantities you want to allow, separated by a pipe " " delimiter. Use a dash to denote a range of quantities. For example, if you enter "1 3 5-7 9" in the text box, only quantities 1, 3, 5, 6, 7 and 9 will be allowed.
allowPartialReturn	Yes	Boolean	Indicate if this product can be returned wholly or partially.
allowProductComparison	Yes	Boolean	Allow this variant for product comparison.
allowRecurringGroupOrders	Yes	Boolean	Allow this variant to be grouped together with other similar orders if this variant is due for recurring.
allowRewardsPoint	Yes	Boolean	Allow this variant to participate in rewards point program.
availabilityRule	No	XML Rule	The rule to describe the conditions when the product can be purchased.
basePrice	Yes	Decimal	The base price.
bookingRule	No	XML Rule	The rule to describe booking conditions such as exclusion dates.
buyingGuide	No	XML Locale	Localized description.
buyingGuideName	No	XML Locale	Override the default buying guide description name.
creditInterval	No	Integer	The amount of time to allow crediting a return.
creditIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
depth	Yes	Decimal	Product depth usually including packaging for shipping calculation (cm).
displayOrder	Yes	Integer	Sort order for display.
distributorID	No	Integer	The Distributor object identifier.
distributorSKU	No	String	
downloadFile	No	String	The URL, file or page associated to the product.
dynamicFormCode	No	XML Code	Custom HTML or input form elements.
exchangeInterval	No	Integer	The amount of time allowed to exchange a return.
exchangeIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).

extension	No	XML	Additional data in XML.
faq	No	XML Locale	Localized description.
faqName	No	XML Locale	Override the default FAQ description name.
handlingPrice	Yes	Decimal	Handling price may be used by handling rule.
hasSerialNumber	Yes	Boolean	Indicate if this product has a serial number for return purposes.
height	Yes	Decimal	Product height usually including packaging for shipping calculation (cm).
inventory	No	Integer	Product inventory.
inventoryEmptyBehavior	Yes	Integer	How product behaves when inventory is empty.  DisallowOrder = 1 DisableProduct = 2 AllowBackorder = 3
inventoryUnitType	Yes	Integer	Indicate how inventory is treated especially in the case of a booking product. For regular product, the unit type should be Constant.  Constant = 1 Year = 2 Month = 3 Week = 4 Day = 5 Hour = 6
manufacturerID	No	Integer	The Manufacturer object identifier.
manufacturerSKU	No	String	
maxBookingDate	No	DateTime	
maxBookingTime	No	TimeSpan	
minBookingDate	No	DateTime	
minBookingTime	No	TimeSpan	
maxInventory	No	Integer	The desirable max inventory to keep.
maxOrderQuantity	No	Integer	Maximum quantity per order.

maxOrderUnit	No	Integer	Maximum reservable units for a booking product.
minOrderUnit	No	Integer	Minimum reservable units for a booking product.
metaDescription	No	XML Locale	Localized meta description.
metaKeywords	No	XML Locale	Localized meta keywords.
minInventory	No	Integer	The desirable min inventory to keep.
minOrderQuantity	No	Integer	Minimum quantity per order.
modifierRule	No	XML Rule	Product modifier rule.
msrp	No	Decimal	Manufacturer suggested retail price.
name	No	XML Locale	Localized name.
overview	No	XML Locale	Localized description.
overviewName	No	XML Locale	Override the default overview description name.
packageType	Yes	Integer	Package type for shipping calculation (Unspecified = 1, Envelope = 1000, Box = 2000, Bag = 3000, Tube = 4000).
pageTitle	No	XML Locale	Localized page title.
preorderInterval	Yes	Integer	The days to preorder a recurring order ahead of time.
priceText	No	XML Locale	Any text specified here will be shown to the customer instead of the actual price.
productCost	No	Decimal	The product cost.
productID	Yes	Integer	The Product object identifier.
productVariantID	Yes	Integer	The object identifier.
productVariantKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
promotionRule	No	XML Rule	Product promotion rule.
promotionStartDate	No	DateTime	Product promotion start date.

promotionStopDate	No	DateTime	Product promotion stop date.
published	Yes	Boolean	Allow product to be displayed.
recurringInterval	Yes	Integer	The recurring interval. A zero value indicates non-recurring.
recurringIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
recurringMaxRepeat	No	Integer	The number of times to repeat the recurring product. Empty indicates repeat perpetually.
recurringMinRepeat	No	Integer	The minimum number of times that must be repeated before allowing customers from cancelling future recurring orders.
refundInterval	No	Integer	The amount of time allowed to refund a return.
refundIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
repairInterval	No	Integer	The amount of time allowed to repair a return.
repairIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
requireHandling	Yes	Boolean	Indicate if product requires handling.
requireShipping	Yes	Boolean	Indicate if product requires shipping.
rewardPoints	No	Integer	The custom number of rewards points to award.
rightDefinitionID	No	Integer	The RightDefinition identifier to issue upon purchase.If this value is set, the customer will be issued the access right when order is paid or completed.
salesType	Yes	Integer	Determine if product can be purchased at the listed price or must be quoted first.  Sale = 1 Quoted = 2
shippingCode	No	String	Shipping code may be used by your shipping provider to classify this package to obtain a more accurate quote.
shippingPrice	Yes	Decimal	Shipping price may be used by shipping rule.
sku	No	String	
specifications	No	XML Locale	Localized description.
specificationsName	No	XML Locale	Override the default specifications description name.

startDate	No	DateTime	The start date when the product is available for purchase.
startRecurringDate	No	DateTime	Initialize a different recurring start date.
startRecurringInterval	Yes	Integer	Initialize a different recurring start date by interval amount.
startRecurringIntervalType	Yes	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
stopDate	No	DateTime	The stop date when the product is no longer available for purchase.
summary	No	XML Locale	Localized description.
taxClassID	No	Integer	TaxClass object identifier.
terms	No	XML Locale	Localized description.
termsName	No	XML Locale	Override the default terms description name.
universalProductCode	No	String	Universal product code.
urlName	No	XML Locale	Localized URL name for SEO.
voucherDefinitionID	No	Integer	If this value is set, a new voucher of this type will be automatically generated and emailed to customer when order is paid or completed.
warehouseID	No	Integer	Indicate if this product is stored at a warehouse.
weight	Yes	Decimal	Product weight usually including packaging for shipping calculation (g).
width	Yes	Decimal	Product width usually including packaging for shipping calculation (cm).

#### Return Data

Same as GetActiveProductVariant service return data.

# ProductVariantGroup

The ProductVariantGroup is used to group related variants such as Size or Color.

## DeleteProductVariantGroup

This service is used to delete a ProductVariantGroup object.

### Request Parameters

Node	Required	Data Type	Description
productVariantGroupID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetProductVariantGroup

This service is used to query the ProductVariantGroup object.

### Request Parameters

Node	Required	Data Type	Description
productVariantGroupID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productVariantGroup	XML	Container node.
createDate	DateTime	Creation date.
displayOrder	Integer	Sort order for display.
fieldType	Integer	The type of control to display. DropDownList = 1, RadioButtonList = 2, ColorPicker = 3, ImageSwatch = 4
helpText	XML Locale	Localized help text.

name	XML Locale	Localized name.
productID	Integer	The reference Product identifier this product variant group belongs to.
productVariantGroupID	Integer	The object identifier.
productVariantGroupKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
updateDate	DateTime	Update date.

## GetProductVariantGroups

This service is used to get all the ProductVariantGroup objects belonging to the Product.

### Request Parameters

Node	Required	Data Type	Description
productID	Yes	Integer	The Product object identifier.

### Return Data

Node	Data Type	Description
productVariantGroups	XML	Container node
productVariantGroup	XML	Zero or more productVariantGroup nodes with same data structure as GetProductVariantGroup service return data.

## InsertProductVariantGroup

This service is used to create a new ProductVariantGroup object.

### Request Parameters

Node	Required	Data Type	Description
displayOrder	Yes	Integer	Sort order for display.

fieldType	Yes	Integer	The type of control to display. DropDownList = 1, RadioButtonList = 2, ColorPicker = 3, ImageSwatch = 4
helpText	No	XML Locale	Localized help text.
name	Yes	XML Locale	Localized name.
productID	Yes	Integer	The reference Product identifier this product variant group belongs to.
productVariantGroupKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.

#### Return Data

Same as GetProductVariantGroup service return data.

## UpdateProductVariantGroup

This service is used to update a ProductVariantGroup object.

#### Request Parameters

Node	Required	Data Type	Description
displayOrder	Yes	Integer	Sort order for display.
fieldType	Yes	Integer	The type of control to display. DropDownList = 1, RadioButtonList = 2, ColorPicker = 3, ImageSwatch = 4
helpText	No	XML Locale	Localized help text.
name	Yes	XML Locale	Localized name.
productID	Yes	Integer	The reference Product identifier this product variant group belongs to.
productVariantGroupID	Yes	Integer	The object identifier.
productVariantGroupKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.

#### Return Data

Same as GetProductVariantGroup service return data.





# ProductVariantGroupOption

The ProductVariantGroupOption is the individual selectable options in a product variant group such as Small or Blue.

## DeleteProductVariantGroupOption

This service is used to delete a ProductVariantGroupOption object.

### Request Parameters

Node	Required	Data Type	Description
productVariantGroupOptionID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetProductVariantGroupOption

This service is used to query the ProductVariantGroupOption object.

### Request Parameters

Node	Required	Data Type	Description
productVariantGroupOptionID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productVariantGroupOption	XML	Container node.
colorCode	String	The color code used if this group option is a color swatch type.
createDate	DateTime	Creation date.
displayOrder	Integer	Sort order for display.
imageData	String	The image data in Base64 encoding if this group option is an image swatch type.
imageFile	String	The file name saved to disk if this group option is an image swatch type.

name	XML Locale	Localized name.
productVariantGroupID	Integer	The reference ProductVariantGroup identifier this product variant group option belongs to.
productVariantGroupOptionID	Integer	The object identifier.
productVariantGroupOptionKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.
updateDate	DateTime	Update date.

## GetProductVariantGroupOptions

This service is used to get all the ProductVariantGroupOption objects belonging to the ProductVariantGroup.

### Request Parameters

Node	Required	Data Type	Description
productVariantGroupID	Yes	Integer	The ProductVariantGroup object identifier.

### Return Data

Node	Data Type	Description
productVariantGroupOptions	XML	Container node
productVariantGroupOption	XML	Zero or more productVariantGroupOption nodes with same data structure as GetProductVariantGroupOption service return data.

## InsertProductVariantGroupOption

This service is used to create a new ProductVariantGroupOption object.

### Request Parameters

Node	Required	Data Type	Description
------	----------	-----------	-------------

colorCode	No	String	The color code used if this group option is a color swatch type.
displayOrder	Yes	Integer	Sort order for display.
imageData	No	String	The image data in Base64 encoding if this group option is an image swatch type.
imageFile	No	String	The file name saved to disk if this group option is an image swatch type.
name	Yes	XML Locale	Localized name.
productVariantGroupID	Yes	Integer	The reference ProductVariantGroup identifier this product variant group belongs to.
productVariantGroupOptionKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.

### Return Data

Same as GetProductVariantGroupOption service return data.

## UpdateProductVariantGroupOption

This service is used to update a ProductVariantGroupOption object.

### Request Parameters

Node	Required	Data Type	Description
colorCode	No	String	
displayOrder	Yes	Integer	Sort order for display.
helpText	No	XML Locale	Localized help text.
imageData	No	String	The image data in Base64 encoding if this group option is an image swatch type.
imageFile	No	String	The file name saved to disk if this group option is an image swatch type.
name	Yes	XML Locale	Localized name.

productVariantGroupID	Yes	Integer	The reference ProductVariantGroup identifier this product variant group belongs to.
productVariantGroupOptionID	Yes	Integer	The object identifier.
productVariantGroupOptionKey	Yes	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.

#### **Return Data**

Same as GetProductVariantGroupOption service return data.

# ProductVariantOption

The ProductVariantOption is the association between the ProductVariant and the individual selectable options in a ProductVariantGroupOption.

## DeleteProductVariantOption

This service is used to delete a ProductVariantOption object.

### Request Parameters

Node	Required	Data Type	Description
productVariantOptionID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetProductVariantOption

This service is used to query the ProductVariantOption object.

### Request Parameters

Node	Required	Data Type	Description
productVariantOptionID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
productVariantOption	XML	Container node.
createDate	DateTime	Creation date.
productVariantGroupOptionID	Integer	The reference ProductVariantGroupOption identifier.
productVariantID	Integer	The reference ProductVariant identifier.
productVariantOptionID	Integer	The object identifier.
updateDate	DateTime	Update date.

---

## GetProductVariantOptionsByProductVariant

This service is used to get all the ProductVariantOption objects belonging to the ProductVariant.

### Request Parameters

Node	Required	Data Type	Description
productVariantID	Yes	Integer	The ProductVariant object identifier.

### Return Data

Node	Data Type	Description
productVariantOptions	XML	Container node
productVariantOption	XML	Zero or more productVariantOption nodes with same data structure as GetProductVariantOption service return data.

---

## GetProductVariantOptionsByProductVariantGroupOption

This service is used to get all the ProductVariantOption objects associated with the ProductVariantGroupOption.

### Request Parameters

Node	Required	Data Type	Description
productVariantGroupOptionID	Yes	Integer	The ProductVariantGroupOption object identifier.

### Return Data

Node	Data Type	Description
productVariantOptions	XML	Container node
productVariantOption	XML	Zero or more productVariantOption nodes with same data structure as GetProductVariantOption service return data.

---

## InsertProductVariantOption

This service is used to create a new ProductVariantOption object.

**Request Parameters**

<b>Node</b>	<b>Required</b>	<b>Data Type</b>	<b>Description</b>
productVariantGroupOptionID	Yes	Integer	The reference ProductVariantGroupOption identifier.
productVariantID	Yes	Integer	The reference ProductVariant identifier.

**Return Data**

Same as GetProductVariantOption service return data.



# RecurringSalesOrder

The RecurringSalesOrder controls the repeat of sales orders.

## GetRecurringSalesOrder

This service is used to query the RecurringSalesOrder object.

### Request Parameters

Node	Required	Data Type	Description
recurringSalesOrderID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
recurringSalesOrder	XML	Container node.
adminNotes	String	Notes visible to the store administrator only.
createDate	DateTime	Creation date.
cultureCode	String	The culture code.
dynamicFormResult	XML	The result collected from custom fields.
maxRepeat	Integer	The number of times this recurring order is allowed to repeat.
nextRecurringDate	DateTime	The next recurring date.
originalSalesOrderID	Integer	The associated SalesOrder.
portalID	Integer	
price	Decimal	Override the calculated price.
productVariantID	Integer	The ProductVariant object identifier.
quantity	Integer	
recurringSalesOrderID	Integer	The object identifier.
repeatCount	Integer	The number of times this recurring order has repeated.

sellerID	Integer	Indicates if this object belongs to a seller.
shippingCity	String	
shippingCompany	String	
shippingCountryCode	String	
shippingCountryName	String	
shippingEmail	String	
shippingFirstName	String	
shippingLastName	String	
shippingMethodID	Integer	ShippingMethod object identifier.
shippingPhone	String	
shippingPostalCode	String	
shippingStreet	String	
shippingSubdivisionCode	String	
shippingSubdivisionName	String	
status	Integer	Recurring order status (Active = 1, Hold = 2, Invalid = 3, Cancelled = 4)
updateDate	DateTime	Update date.
userID	Integer	UserID object identifier.
userPaymentID	Integer	UserPayment object identifier. The saved user payment to charge for future occurrences of this order.

---

## GetRecurringSalesOrders

This service is used to get all the RecurringSalesOrder objects belonging to the portal.

### Request Parameters

None

## Return Data

Node	Data Type	Description
recurringSalesOrders	XML	Container node
recurringSalesOrder	XML	Zero or more recurringSalesOrder nodes with same data structure as GetRecurringSalesOrder service return data.

---

## GetRecurringSalesOrdersByOriginalSalesOrder

This service is used to get all the RecurringSalesOrder objects belonging to the original sales order.

### Request Parameters

Node	Required	Data Type	Description
salesOrderID	Yes	Integer	The object identifier.

## Return Data

Node	Data Type	Description
recurringSalesOrders	XML	Container node
recurringSalesOrder	XML	Zero or more recurringSalesOrder nodes with same data structure as GetRecurringSalesOrder service return data.

---

## UpdateRecurringSalesOrder

This service is used to update a RecurringSalesOrder object.

### Request Parameters

Node	Required	Data Type	Description
recurringSalesOrderID	Yes	Integer	The object identifier.

status	Yes	Integer	Recurring order status (Active = 1, Hold = 2, Invalid = 3, Cancelled = 4)
userPaymentID	No	Integer	The saved user payment to charge for future occurrences of this order.

#### **Return Data**

Same as GetRecurringSalesOrder service return data.

# RelatedProduct

RelatedProduct is the object relationship associating two related products together.

## DeleteRelatedProduct

This service is used to delete a RelatedProduct object.

### Request Parameters

Node	Required	Data Type	Description
relatedProductID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetRelatedProduct

This service is used to query the RelatedProduct object.

### Request Parameters

Node	Required	Data Type	Description
relatedProductID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
relatedProduct	XML	Container node.
createDate	DateTime	Creation date.
productID	Integer	Product object identifier in this relation.
relatedProductID	Integer	The object identifier.
relationProductID	Integer	The Product object identifier related to the productID.

---

## GetRelatedProductsByProduct

This service is used to get all the RelatedProduct objects belonging to the product.

### Request Parameters

Node	Required	Data Type	Description
productID	Yes	Integer	The Product object identifier.

### Return Data

Node	Data Type	Description
relatedProducts	XML	Container node
relatedProduct	XML	Zero or more relatedProduct nodes with same data structure as GetRelatedProduct service return data.

---

## InsertRelatedProduct

This service is used to create a new RelatedProduct object.

### Request Parameters

Node	Required	Data Type	Description
productID	Yes	Integer	The Product object identifier.
relationProductID	Yes	Integer	The Product object identifier related to the Product.

### Return Data

Same as GetRelatedProduct service return data.

# RequiredProduct

RequiredProduct is the object relationship associating two required products together.

## DeleteRequiredProduct

This service is used to delete a RequiredProduct object.

### Request Parameters

Node	Required	Data Type	Description
requiredProductID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetRequiredProduct

This service is used to query the RequiredProduct object.

### Request Parameters

Node	Required	Data Type	Description
requiredProductID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
requiredProduct	XML	Container node.
createDate	DateTime	Creation date.
deferDate	DateTime	Defer the start of the required product until the date specified.
deferInterval	Integer	Defer the start of the required product by the amount of interval time. Enter zero to start immediately.
deferIntervalType	Integer	The interval type for the deferral. Day = 1, Week = 2, Month = 3, Year = 4
productVariantID	Integer	The ProductVariant object identifier.

published	Boolean	Determine if the required product is disclosed to the customer.
quantity		A non-zero value will match the quantity ordered (e.g. if you set a value of 2 and the customers places an order for 2 items, the total required products will equal 4). Enter a value of 1 if you want to have a one to one match. If you want a single required product regardless of any number of items purchased, enter a value of 0.
requiredProductID	Integer	The object identifier.
requiredProductVariantID	Integer	The ProductVariant object identifier required by the productVariantID.
updateDate	DateTime	

## GetRequiredProductsByProductVariant

This service is used to get all the RequiredProduct objects belonging to the product.

### Request Parameters

Node	Required	Data Type	Description
productVariantID	Yes	Integer	The ProductVariant object identifier.

### Return Data

Node	Data Type	Description
requiredProducts	XML	Container node
requiredProduct	XML	Zero or more requiredProduct nodes with same data structure as GetRequiredProduct service return data.

## InsertRequiredProduct

This service is used to create a new RequiredProduct object.

### Request Parameters



Node	Required	Data Type	Description
deferDate	No	DateTime	Defer the start of the required product until the date specified.
deferInterval	Yes	Integer	Defer the start of the required product by the amount of interval time. Enter zero to start immediately.
deferIntervalType	Yes	Integer	The interval type for the deferral. Day = 1, Week = 2, Month = 3, Year = 4
productVariantID	Yes	Integer	The ProductVariant object identifier.
published	Yes	Boolean	Determine if the required product is disclosed to the customer.
quantity	Yes	Integer	A non-zero value will match the quantity ordered (e.g. if you set a value of 2 and the customers places an order for 2 items, the total required products will equal 4). Enter a value of 1 if you want to have a one to one match. If you want a single required product regardless of any number of items purchased, enter a value of 0.
requiredProductVariantID	Yes	Integer	The ProductVariant object identifier required by the ProductVariant.

### Return Data

Same as GetRequiredProduct service return data.

# Right

A Right is used to issue access rights such as license key to customer upon purchase.

## GetRight

This service is used to query the Right object.

### Request Parameters

Node	Required	Data Type	Description
rightID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
right	XML	
adminNotes	String	Administrator notes not shown to customer.
assignedUserID	Integer	The right may be assigned to a user.
code	String	The unique code.
createDate	DateTime	
issueDate	DateTime	The date when the right was first issued.
rightDefinitionID	Integer	The right definition object identifier associated with this right. The right definition is the template that determines type of right.
rightID	Integer	The object identifier.
salesOrderDetailID	Integer	The corresponding sales order detail object identifier if this right was generate from the order.
updateDate	DateTime	

---

## GetRightByCode

This service is used to query the Right object.

### Request Parameters

Node	Required	Data Type	Description
code	Yes	String	The right code.

#### Return Data

Same data structure as GetRight service return data.

---

## GetRights

This service is used to query all the Right objects.

#### Request Parameters

None

#### Return Data

Node	Data Type	Description
rights	XML	Container node
right	XML	Zero or more Right nodes with same data structure as GetRight service return data.

---

## GetRightsByRightDefinition

This service is used to query all the Right objects.

#### Request Parameters

Node	Required	Data Type	Description
rightDefinitionID	Yes	Integer	The RightDefinition object identifier.

#### Return Data

Node	Data Type	Description
rights	XML	Container node
right	XML	Zero or more Right nodes with same data structure as GetRight service return data.

# RightDefinition

A RightDefinition is a definition template used to create Right objects.

## GetRightDefinition

This service is used to query the RightDefinition object.

### Request Parameters

Node	Required	Data Type	Description
rightDefinitionID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
rightDefinition	XML	
createdDate	DateTime	
description	XML Locale	
name	XML Locale	
portalID	Integer	
rightDefinitionID	Integer	The object identifier of the right definition.
rightType	Integer	The type of right. PregeneratedLicenseKey = 1
sellerID	Integer	Indicate if this product belongs to a seller.
updateDate	DateTime	

---

## GetRightDefinitions

This service is used to query all the RightDefinition objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
rightDefinitions	XML	Container node
rightDefinition	XML	Zero or more Right nodes with same data structure as GetRightDefinition service return data.

# SalesOrder

The SalesOrder object tracks Storefront sales.

## GetSalesOrder

This service is used to query the SalesOrder object.

### Request Parameters

Node	Required	Data Type	Description
salesOrderID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
salesOrder	XML	Container node.
adminNotes	String	Notes intended for store administrators.
affiliateID	Integer	The Affiliate ID tracked to the order if it originated from a referral.
billingCity	String	
billingCompany	String	
billingCountryCode	String	
billingCountryName	String	
billingEmail	String	
billingFirstName	String	
billingLastName	String	
billingPhone	String	
billingPostalCode	String	
billingStreet	String	
billingSubdivisionCode	String	

billingSubdivisionName	String	
businessTaxNumber	String	Business tax number (e.g. VAT number).
couponCodes	String	Pipe delimited coupon codes.
createDate	DateTime	Creation date.
cultureCode	String	The display culture.
currencyCultureCode	String	The currency culture.
customerNotes	XML Locale	Notes intended for customer.
dynamicFormResult	XML	The result collected from DynamicForm.
exchangeRate	Decimal	The exchange rate relative to the primary currency.
fraudScore	Integer	The registered fraud score from 0 to 100 if available.
fraudRiskGateway	String	The risk gateway provider.
handlingAmount	Decimal	Handling amount.
handlingDiscountAmount	Decimal	Handling discount.
handlingMethodID	Integer	The HandlingMethod object identifier.
handlingTaxAmount1	Decimal	
handlingTaxAmount2	Decimal	
handlingTaxAmount3	Decimal	
handlingTaxAmount4	Decimal	
handlingTaxAmount5	Decimal	
orderDate	DateTime	The order date.
orderLocked	Boolean	Lock the order to prevent customer from changing the order details when resuming an incomplete order.
origin	Integer	Where the order originated (Web Checkout = 1, System Recurring = 2).
packingMethodID	Integer	PackingMethod object identifier.
parentSalesOrderID	Integer	The parent sales order if this order belonged in a sales order set.

paymentIncompleteNextRetryDate	DateTime	Set when the next payment retry should be attempted.
paymentTerm	Integer	See Payment Term Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-term-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-term-types/rvdwkpvm/section</a> )
portalID	Integer	
preferredUserPaymentID	Integer	
purchaseOrderNumber	String	Purchase order number.
rewardsPointsQualified	Integer	The number of rewards points earned from the purchase of this order.
rewardsPointsRewarded	Integer	The estimated number of points actually rewarded to the customer for this order so far.
salesOrderGUID	GUID	SalesOrder globally unique identifier.
salesOrderID	Integer	The object identifier.
salesOrderNumber	String	The order number shown to customer and printed on receipts.
salesPaymentStatus	Integer	Sales payment status (Pending = 1, Paid = 2, Cancelled = 3, Refunded = 4).
sellerID	Integer	The seller associated with this sales order.
shippedDate	DateTime	The date the order is shipped, if available.
shippingAmount	Decimal	
shippingCity	String	
shippingCompany	String	
shippingCountryCode	String	
shippingCountryName	String	
shippingDiscountAmount	Decimal	
shippingEmail	String	
shippingFirstName	String	
shippingLastName	String	
shippingMethodID	Integer	ShippingMethod object identifier.



shippingPackages	XML	The packing result.
shippingPhone	String	
shippingPostalCode	String	
shippingStatus	Integer	Shipping status (Not Required = 1, Not Shipped = 2, Shipped = 3, Undeliverable = 4).
shippingStreet	String	
shippingSubdivisionCode	String	
shippingSubdivisionName	String	
shippingTaxAmount1	Decimal	
shippingTaxAmount2	Decimal	
shippingTaxAmount3	Decimal	
shippingTaxAmount4	Decimal	
shippingTaxAmount5	Decimal	
shippingTrackingCode	String	Shipping tracking code.
shippingUniversalServiceName	String	The globally unique name generated by the system that corresponds to the shipping gateway's service name used internally to match a real-time shipping method.
status	Integer	Sales order status (Pending = 1, Ordered = 2, Processing = 3, Completed = 4, Cancelled = 5, Declined = 6, Incomplete = 7)
subTotalAmount	Decimal	Sub-total.
taxAmount1	Decimal	
taxAmount2	Decimal	
taxAmount3	Decimal	
taxAmount4	Decimal	
taxAmount5	Decimal	
taxDiscountAmount	Decimal	
totalAmount	Decimal	

updateDate	DateTime	Update date.
userHostAddress	String	User IP address.
userID	Integer	UserID object identifier.
warehouseID	Integer	The warehouse associated to this sales order.

## GetSalesOrderBySalesOrderNumber

This service is used to get the SalesOrder object belonging to the portal.

### Request Parameters

Node	Required	Data Type	Description
salesOrderNumber	Yes	String	The order number shown to customer and printed on receipts.

### Return Data

Same as GetSalesOrder service return data.

## GetSalesOrders

This service is used to get all the SalesOrder objects belonging to the portal.

### Request Parameters

None

### Return Data

Node	Data Type	Description
salesOrders	XML	Container node
salesOrder	XML	Zero or more salesOrder nodes with same data structure as GetSalesOrder service return data.

## GetSalesOrdersByDateRange

This service is used to get all the SalesOrder objects belonging to the portal by date range.

### Request Parameters

Node	Required	Data Type	Description
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startDate	Yes	DateTime	Start date.
stopDate	Yes	DateTime	Stop date.

#### Return Data

Node	Data Type	Description
salesOrders	XML	Container node
salesOrder	XML	Zero or more salesOrder nodes with same data structure as GetSalesOrder service return data.

## UpdateSalesOrder

This service is used to update a SalesOrder object.

#### Request Parameters

Node	Required	Data Type	Description
preferredUserPaymentID	No	Integer	The payment to use for collecting payment if unpaid.
salesOrderID	Yes	Integer	The object identifier.
salesPaymentStatus	Yes	Integer	Pending = 1, Paid = 2, Cancelled = 3, Refunded = 4
shippingStatus	Yes	Integer	NotRequired = 1, NotShipped = 2, Shipped = 3, Undeliverable = 4
shippingTrackingCode	No	String	The shipping tracking code for the order. Leave empty if none.
status	Yes	Integer	Pending = 1, Ordered = 2, Processing = 3, Completed = 4, Cancelled = 5, Declined = 6, Incomplete = 7

#### Return Data

Same as GetSalesOrder service return data.

## ProcessIncompleteSalesPayment

This service is used to process any missing payment for a sales order. The sales order must be in one of the following statuses (Ordered/Pending) and the payment status must be either (Incomplete/Declined). The sales order must also have a valid PreferredUserPaymentID set.

#### Request Parameters

Node	Required	Data Type	Description
salesOrderID	Yes	Integer	The object identifier of the sales order to process.

**Return Data**

None.

# SalesOrderDetail

The SalesOrderDetail object tracks individual sales items within a sales order.

## GetSalesOrderDetail

This service is used to query the SalesOrderDetail object.

### Request Parameters

Node	Required	Data Type	Description
salesOrderDetailID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
salesOrderDetail	XML	Container node.
adminNotes	String	Notes visible to the store administrator only.
basePrice	Decimal	
bookingStartDate	DateTime	The starting date for a booked order in UTC time zone.
bookingStopDate	DateTime	The stopping date for a booked order in UTC time zone.
createDate	DateTime	
depth	Decimal	
discountAmount	Decimal	
dynamicFormResult	XML	
handlingPrice	Decimal	
height	Decimal	
packageType	Integer	Package type for shipping calculation (Unspecified = 1, Envelope = 1000, Box = 2000, Bag = 3000, Tube = 4000).
parentSalesOrderDetailID	Integer	Indicates if this SalesOrderDetail item is a product part and child of a parent SalesOrderDetail object usually in a bundled product scenario.

price	Decimal	
priceLocked	Boolean	Indicate if the prices are locked from changes.
productCost	Decimal	
productName	XML Locale	Localized product name.
productPartID	Integer	References the ProductPart identifier usually from a bundled product purchase.
productVariantExtension	XML	
productVariantID	Integer	ProductVariant object identifier.
productVariantName	XML Locale	Localized product variant name.
quantity	Integer	
recurringInterval	Integer	The recurring interval.
recurringIntervalType	Integer	The interval type (Day = 1, Week = 2, Month = 3, Year = 4).
recurringSalesOrderID	Integer	The associated RecurringSalesOrder object identifier if this SalesOrderDetail object was created from a recurring order.
requireShipping	Boolean	Indicate if product requires shipping.
salesOrderDetailID	Integer	The object identifier.
salesOrderID	Integer	The associated SalesOrder object identifier.
shippingPrice	Decimal	
shippingStatus	Integer	Shipping status (Not Required = 1, Not Shipped = 2, Shipped = 3, Undeliverable = 4).
sku	String	
status	Integer	Order detail status (Pending = 1, Ordered = 2, Processing = 3, Completed = 4, Quoted = 9)
taxAmount1	Decimal	
taxAmount2	Decimal	
taxAmount3	Decimal	

taxAmount4	Decimal	
taxAmount5	Decimal	
updateDate	DateTime	Update date.
weight	Decimal	
width	Decimal	

## GetSalesOrderDetails

This service is used to get all the SalesOrderDetail objects belonging to the SalesOrder.

### Request Parameters

Node	Required	Data Type	Description
salesOrderID	Yes	Integer	The SalesOrder object identifier.

### Return Data

Node	Data Type	Description
salesOrderDetailDetails	XML	Container node
salesOrderDetail	XML	Zero or more salesOrderDetail nodes with same data structure as GetSalesOrderDetail service return data.

## UpdateSalesOrderDetail

This service is used to update a SalesOrderDetail object.

### Request Parameters

Node	Required	Data Type	Description
salesOrderDetailID	Yes	Integer	The object identifier.
shippingStatus	Yes	Integer	NotRequired = 1, NotShipped = 2, Shipped = 3, Undeliverable = 4

### Return Data

Same as GetSalesOrderDetail service return data.





# SalesPayment

The SalesPayment object tracks payments belonging to a sales order.

## AuthorizeSalesPayment

This service is used to authorize a payment transaction.

### Request Parameters

Node	Required	Data Type	Description
accountNumber	Yes/No	String	The account number is usually used by ACH/eCheck payment method. This value is required for ACH/eCheck payment method.
accountType	Yes/No	Integer	The account type is usually used by ACH/eCheck payment method. This value is required for ACH/eCheck payment method. See Account Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/account-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/account-types/rvdwkpvm/section</a> )
amount	Yes	Decimal	
city	Yes	String	
company	No	String	
countryCode	Yes	String	
creditCardCvv	Yes/No	String	The credit card verification value. This value may be required when performing the Authorize or Purchase transaction for a credit card payment method especially if this is the first time you transact with this card. Subsequent transactions from the same card normally do not require the CVV value. You are not allowed to store this value in permanent storage under any circumstances. This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.
creditCardExpiryMonth	Yes/No	String	This should be a numeric representation of the month ranging from 1 to 12. You may also represent it with a leading zero as 01 to 12. This value is required when performing the Authorize or Purchase transaction for a credit card payment method. This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.

creditCardExpiryYear	Yes/No	String	The expiry year. e.g. "2025". This value is required when performing the Authorize or Purchase transaction for a credit card payment method. This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.
creditCardHint	Yes/No	String	The credit card number hint that will be displayed to the user. This is normally the last 4 digits of the credit card. This value is required when performing the Authorize or Purchase transaction for a credit card payment method. This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.
creditCardNumber	Yes/No	String	Credit card number. This value is required when performing the Authorize or Purchase transaction for a credit card payment method. This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.
email	Yes	String	
failureReturnUrl	No	String	The URL that the gateway should return if the transaction failed, normally used for 3D Secure.
firstName	Yes	String	
institutionName	Yes/No	String	The institution name is usually used by ACH/eCheck payment method. This value is required for ACH/eCheck payment method.
institutionNumber	Yes/No	String	The institution number is usually used by ACH/eCheck payment method.
lastName	Yes	String	
notificationUrl	No	String	The resource URL that can handle an async callback normally used to obtain transaction results after a redirection.
origin	Yes	Integer	The payment origin. SeePayment Origin Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-origin-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-origin-types/rvdwkpvm/section</a> ).
parentSalesPaymentID	Yes/No	Integer	The related parent payment object identifier or null. This value is required when performing a Capture, Refund or Void transaction.

paymentDate	Yes	DateTime	Date and time following GMT time zone.
paymentGatewayAuthorizationCode	Yes/No	String	The authorization code usually used to capture and pre-authorized transaction. This value is normally required when performing a Capture transaction.
paymentGatewayReferenceID	Yes/No	String	Reference value from payment gateway. This value may be required if performing a Capture, Void or Refund transaction.
paymentGatewayToken	Yes/No	String	Transaction token identifier returned from payment gateway. This value may be required if performing a Capture, Void or Refund transaction.
paymentGatewayTransactionID	Yes/No	String	Transaction identifier returned from payment gateway. This value may be required if performing a Capture, Void or Refund transaction.
paymentHint	No	String	Payment hint to help customers identify their payment information.
paymentMethod	Yes	Integer	The payment method type. SeePayment Method Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-method-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-method-types/rvdwkpvm/section</a> ).
paymentNumber	Yes/No	String	Identifier associated with the payment gateway's payment profile record. This payment token if available may be used in place of the credit card number.
phone	Yes	String	
postalCode	Yes	String	
profileNumber	Yes/No	String	Identifier associated with the payment gateway's payment profile record. This profile token if available may be used in place of the credit card number.
salesOrderID	Yes	Integer	The associated SalesOrder object identifier.
street	Yes	String	
subdivisionCode	Yes	String	
successReturnUrl	No	String	The URL that the gateway should return if successful, normally used for 3D Secure.

transactionType	Yes	Integer	Payment transaction type. See Sales Payment Transaction Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-payment-transaction-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-payment-transaction-types/rvdwkpvm/section</a> ).
userHostAddress	Yes	String	
voucherCode	Yes/No	String	Voucher code. This value is required for voucher payment method.
voucherHint	No	String	Voucher hint to help customers identify their voucher information. Normally the last 4 digits of the voucher code. This value is used for voucher payment method.

#### Return Data

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction. You should also verify the PaymentGatewayPaymentRedirectUrl and PaymentGatewayPaymentFormPost for additional next actions that you may need to perform if required by the gateway.

## CaptureSalesPayment

This service is used to capture a previously authorized payment transaction.

#### Request Parameters

See AuthorizeSalesPayment request.

#### Return Data

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

## DeleteSalesPayment

This service is used to delete a payment transaction. Please note that deleting a payment does not reverse any charges.

#### Request Parameters

Node	Required	Data Type	Description
salesPaymentID	Yes	Integer	The object identifier.

#### Return Data

None.

## GetSalesPayment

This service is used to query the SalesPayment object.

### Request Parameters

Node	Required	Data Type	Description
salesPaymentID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
salesPayment	XML	Container node.
accountNumber	String	The account number is usually used by ACH/eCheck payment method.
accountType	Integer	The account type is usually used by ACH/eCheck payment method. See Account Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/account-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/account-types/rvdwkpvm/section</a> )
amount	Decimal	
city	String	
company	String	
countryCode	String	
countryName	String	
createDate	DateTime	
creditCardCvv	String	
creditCardExpiryMonth	String	This should be a numeric representation of the month ranging from 1 to 12. You may also represent it with a leading zero as 01 to 12.
creditCardExpiryYear	String	The expiry year. e.g. "2025"
creditCardHint	String	The credit card number hint that will be displayed to the user. This is normally the last 4 digits of the credit card.

creditCardNumber	String	Credit card number.
email	String	
firstName	String	
institutionName	String	The institution name usually used by ACH/eCheck payment method.
institutionNumber	String	The institution number usually used by ACH/eCheck payment method.
lastName	String	
origin	Integer	The payment origin. See Payment Origin Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-origin-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-origin-types/rvdwkpvm/section</a> ).
parentSalesPaymentID	Integer	The related parent payment object identifier or null.
paymentDate	DateTime	
paymentGateway	String	The gateway used or empty if manual transaction.
paymentGatewayAuthorizationCode	String	The authorization code usually used to capture and pre-authorized transaction.
paymentGatewayAvsResponseCode	Integer	The AVS address verification response code. See Payment Gateway AVS Response Codes ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-gateway-avs-response-codes/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-gateway-avs-response-codes/rvdwkpvm/section</a> )
paymentGatewayCvvResponseCode	Integer	The CVV response code. See Payment Gateway CVV Response Codes ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-gateway-cvv-response-codes/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-gateway-cvv-response-codes/rvdwkpvm/section</a> )
paymentGatewayDetailedResponse	String	Detailed response from payment gateway.
paymentGatewayPayerInfo	String	Additional payer information from payment gateway.
paymentGatewayPaymentFormPost	String	HTML instructions for payment redirect using form post from payment gateway.
paymentGatewayPaymentHint	String	Payment hint returned by payment gateway.
paymentGatewayPaymentNumber	String	Payment token number from payment gateway. This token is normally used in conjunction with the profile number token.

paymentGatewayPaymentRedirectUrl	String	URL for payment redirect using HTTP redirect from payment gateway.
paymentGatewayPaymentTarget	String	HTML instructions for payment redirect display targeting from payment gateway.
paymentGatewayProfileNumber	String	Profile token number from payment gateway. This token is usually used in conjunction with the payment number token.
paymentGatewayReferenceID	String	Reference value from payment gateway.
paymentGatewayResponseCode	Integer	The gateway response code. See Payment Gateway Response Codes ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-gateway-response-codes/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-gateway-response-codes/rvdwkpvm/section</a> ).
paymentGatewayResponseMessage	String	Message returned from payment gateway.
paymentGatewayToken	String	Transaction token identifier returned from payment gateway.
paymentGatewayTransactionID	String	Transaction identifier returned from payment gateway.
paymentHint	String	Payment hint to help customers identify their payment information.
paymentMethod	Integer	The payment method type. See Payment Method Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-method-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-method-types/rvdwkpvm/section</a> ).
paymentNumber	String	Identifier associated with the payment gateway's payment profile record.
phone	String	
postalCode	String	
profileNumber	String	Identifier associated with the payment gateway's payment profile record.
salesOrderID	Integer	The associated SalesOrder object identifier.
salesPaymentGUID	GUID	Indicate if product requires shipping.
salesPaymentID	Integer	The object identifier.
street	String	
subdivisionCode	String	

subdivisionName	String	
transactionType	Integer	Payment transaction type. See Sales Payment Transaction Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-payment-transaction-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/sales-payment-transaction-types/rvdwkpvm/section</a> ).
updateDate	DateTime	
userHostAddress	String	
voucherCode	String	Voucher code.
voucherHint	String	Voucher hint to help customers identify their voucher information. Normally the last 4 digits of the voucher code.

## GetSalesPayments

This service is used to get all the SalesPayment objects belonging to the SalesOrder.

### Request Parameters

Node	Required	Data Type	Description
salesOrderID	Yes	Integer	The SalesOrder object identifier.

### Return Data

Node	Data Type	Description
salesPayments	XML	Container node
salesPayment	XML	Zero or more salesPayment nodes with same data structure as GetSalesPayment service return data.

## ManualAuthorizeSalesPayment

This service is used to record an authorization payment transaction that occurred outside of your system such as from a virtual terminal.

### Request Parameters

See AuthorizeSalesPayment service request.

### Return Data



Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

---

## ManualCaptureSalesPayment

This service is used to record a capture payment transaction that occurred outside of your system such as from a virtual terminal.

### Request Parameters

See AuthorizeSalesPayment service request.

### Return Data

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

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## ManualPurchaseSalesPayment

This service is used to record a purchase payment transaction that occurred outside of your system such as from a virtual terminal.

### Request Parameters

See AuthorizeSalesPayment service request.

### Return Data

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

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## ManualRefundSalesPayment

This service is used to record a refund payment transaction that occurred outside of your system such as from a virtual terminal.

### Request Parameters

See AuthorizeSalesPayment service request.

### Return Data

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

---

## ManualVoidSalesPayment

This service is used to record a void payment transaction that occurred outside of your system such as from a virtual terminal.

### **Request Parameters**

See AuthorizeSalesPayment service request.

### **Return Data**

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

---

## **RefundSalesPayment**

This service is used to refund a previously purchased or capture transaction.

### **Request Parameters**

See AuthorizeSalesPayment service request.

### **Return Data**

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

---

## **PostAuthorizeSalesPayment**

This service is used to complete the payment transaction after returning from an authorization transaction.

### **Request Parameters**

See AuthorizeSalesPayment service request.

### **Return Data**

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

---

## **PostPurchaseSalesPayment**

This service is used to complete the payment transaction after returning from a purchase transaction.

### **Request Parameters**

See AuthorizeSalesPayment service request.

### **Return Data**

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

---

## **PurchaseSalesPayment**

This service is used to charge a payment transaction. This is equivalent to performing an authorization and capture at once.

### **Request Parameters**

See AuthorizeSalesPayment service request.

#### **Return Data**

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction. You should also verify the PaymentGatewayPaymentRedirectUrl and PaymentGatewayPaymentFormPost for additional next actions that you may need to perform if required by the gateway.

---

### **VoidSalesPayment**

This service is used to void a previously authorized payment transaction.

#### **Request Parameters**

See AuthorizeSalesPayment service request.

#### **Return Data**

Same as GetSalesPayment service return data. You should verify the PaymentGatewayResponseCode for success or failure after each transaction.

---

# SalesPromotion

The SalesPromotion is used to give a discount on purchases.

## DeleteSalesPromotion

This service is used to delete a SalesPromotion object.

### Request Parameters

Node	Required	Data Type	Description
salesPromotionID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetSalesPromotion

This service is used to query the Category object.

### Request Parameters

Node	Required	Data Type	Description
salesPromotionID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
salesPromotion	XML	Container node.
active	Boolean	Flag to indicate if promotion is active and can be used.
createDate	DateTime	Creation date.
description	XML Locale	Localized description.
name	XML Locale	Localized name.
portalID	Integer	
promotionRule	XML Rule	The promotion rule.

promotionType	Integer	Product = 1, SalesOrderDetail = 2, Shipping = 3, Handling = 4, Tax = 5
runOrder	Integer	The execution order for this promotion among other promotions of the same type.
startDate	DateTime	The start date when the promotion is valid.
stopDate	DateTime	The stop date the promotion is no longer valid.
updateDate	DateTime	Update date.

## GetSalesPromotions

This service is used to get all the SalesPromotion objects belonging to the portal.

### Request Parameters

None

### Return Data

Node	Data Type	Description
salesPromotions	XML	Container node
salesPromotion	XML	Zero or more salesPromotion nodes with same data structure as GetSalesPromotion service return data.

## InsertSalesPromotion

This service is used to create a new SalesPromotion object.

### Request Parameters

Node	Required	Data Type	Description
active	Yes	Boolean	Flag to indicate if promotion is active and can be used.
description	No	XML Locale	Localized description.
name	Yes	XML Locale	Localized name.

promotionRule	No	XML Rule	The promotion rule.
promotionType	Yes	Integer	Product = 1, SalesOrderDetail = 2, Shipping = 3, Handling = 4, Tax = 5
runOrder	Yes	Integer	The execution order for this promotion among other promotions of the same type.
salesPromotionID	Yes	Integer	The object identifier.
startDate	No	DateTime	The start date when the promotion is valid.
stopDate	No	DateTime	The stop date the promotion is no longer valid.

### Return Data

Same as GetSalesPromotion service return data.

## UpdateSalesPromotion

This service is used to update a SalesPromotion object.

### Request Parameters

Node	Required	Data Type	Description
active	Yes	Boolean	Flag to indicate if promotion is active and can be used.
description	No	XML Locale	Localized description.
name	Yes	XML Locale	Localized name.
promotionRule	No	XML Rule	The promotion rule.
promotionType	Yes	Integer	Product = 1, SalesOrderDetail = 2, Shipping = 3, Handling = 4, Tax = 5
runOrder	Yes	Integer	The execution order for this promotion among other promotions of the same type.
salesPromotionID	Yes	Integer	The object identifier.
startDate	No	DateTime	The start date when the promotion is valid.
stopDate	No	DateTime	The stop date the promotion is no longer valid.

### Return Data

Same as GetSalesPromotion service return data.

# ShippingMethod

A ShippingMethod object is to manage shipping during checkout.

## GetActiveShippingMethod

This service is used to query the ShippingMethod object.

### Request Parameters

Node	Required	Data Type	Description
shippingMethodID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
shippingMethod	XML	
availabilityRule	XML Rule	The rule to describe the conditions when the shipping is available.
createdDate	DateTime	
displayOrder	Integer	
name	XML Locale	
portalID	Integer	
rateRule	XML Rule	Shipping rate calculation rule.
sellerID	Integer	Indicate if this object belongs to a seller.
shippingMethodID	Integer	The object identifier.
taxClassID	Integer	The TaxClass object identifier if this shipping method is taxable.
universalServiceName	String	The globally unique name generated by the system that corresponds to the shipping gateway's service name used internally to match a real-time shipping method.
updateDate	DateTime	



## GetActiveShippingMethods

This service is used to query all the ShippingMethod objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
shippingMethods	XML	Container node
shippingMethod	XML	Zero or more ShippingMethod nodes with same data structure as GetActiveShippingMethod service return data.

# TaxClass

A TaxClass object is used to calculate taxes during checkout.

## GetTaxClass

This service is used to query the TaxClass object.

### Request Parameters

Node	Required	Data Type	Description
taxClassID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
taxClass	XML	
createDate	DateTime	
exemptionRule	XML Rule	Tax exemption rule.
name	XML Locale	
portalID	Integer	
rateRule	XML Rule	Tax rate calculation rule.
sellerID	Integer	The seller associated with this tax method.
taxClassID	Integer	The object identifier.
updateDate	DateTime	

---

## GetTaxClasses

This service is used to query all the TaxClass objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
taxClasses	XML	Container node
taxClass	XML	Zero or more TaxClass nodes with same data structure as GetTaxClass service return data.

# User

The following service is useful to query information about users.

## GetUser

This service is used to query the User object.

### Request Parameters

Node	Required	Data Type	Description
userID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
user	XML	
affiliateID	Integer	
createdByUserID	Integer	
createdOnDate	DateTime	
displayName	String	
email	String	
firstName	String	
isSuperUser	Boolean	
lastIPAddress	String	
lastName	String	
portalID	Integer	
roles	String	
userID	Integer	
username	String	

---

## GetUsers

This service is used to query all the user objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
users	XML	Container node
user	XML	Zero or more User nodes with same data structure as GetUser service return data.

---

## GetUsersByCreateDate

This service is used to query all the user objects by the created date range.

### Request Parameters

Node	Required	Data Type	Description
startDate	Yes	DateTime	
stopDate	Yes	DateTime	

### Return Data

Node	Data Type	Description
users	XML	Container node
user	XML	Zero or more User nodes with same data structure as GetUser service return data.

---

## GetUsersByLastModifiedDate

This service is used to query all the user objects by the last modified date range.

### Request Parameters

Node	Required	Data Type	Description
------	----------	-----------	-------------

---

startDate	Yes	DateTime	
stopDate	Yes	DateTime	

**Return Data**

Node	Data Type	Description
users	XML	Container node
user	XML	Zero or more User nodes with same data structure as GetUser service return data.

# UserPayment

The UserPayment object tracks payments belonging to a user usually associated with recurring orders.

## DeleteUserPayment

This service is used to delete a UserPayment object.

### Request Parameters

Node	Required	Data Type	Description
userPaymentID	Yes	Integer	The object identifier.

### Return Data

None

---

## GetUserPayment

This service is used to query the UserPayment object.

### Request Parameters

Node	Required	Data Type	Description
userPaymentID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
userPayment	XML	Container node.
accountNumber	String	The account number is usually for ACH or eCheck payment method.
accountType	Integer	The account type is usually for ACH or eCheck payment method. See Account Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/account-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/account-types/rvdwkpvm/section</a> )
businessTaxNumber	String	
city	String	
company	String	

countryCode	String	
countryName	String	
createDate	DateTime	
creditCardCvv	String	
creditCardExpiryMonth	String	This should be a numeric representation of the month ranging from 1 to 12. You may also represent it with a leading zero as 01 to 12.
creditCardExpiryYear	String	The expiry year. e.g. "2025"
creditCardHint	String	The credit card number hint that will be displayed to the user. This is normally the last 4 digits of the credit card.
creditCardNumber	String	Credit card number.
email	String	
firstName	String	
institutionName	String	The institution name usually used by ACH/eCheck payment method.
institutionNumber	String	The institution number usually used by ACH/eCheck payment method.
lastName	String	
paymentHint	String	Payment hint to help customers identify their payment information.
paymentMethod	Integer	The payment method type. See Payment Method Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-method-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-method-types/rvdwkpvm/section</a> ).
paymentNumber	String	Identifier associated with the payment gateway's payment profile record.
phone	String	
portalID	Integer	
postalCode	String	
profileNumber	String	Identifier associated with the payment gateway's payment profile record.
street	String	
subdivisionCode	String	
subdivisionName	String	



updateDate	DateTime	
userID	Integer	Identifier associated with the user account.
userPaymentGUID	Guid	
userPaymentID	Integer	The object unique identifier.
voucherCode	String	Voucher code.
voucherHint	String	Voucher hint to help customers identify their voucher information. Normally the last 4 digits of the voucher code.

## GetUserPayments

This service is used to get all the UserPayment objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
userPayments	XML	Container node
userPayment	XML	Zero or more userPayment nodes with same data structure as GetUserPayment service return data.

## GetUserPaymentsByUser

This service is used to get all the UserPayment objects belonging to the user.

### Request Parameters

Node	Required	Data Type	Description
userID	Yes	Integer	The user object identifier.

### Return Data

Node	Data Type	Description
userPayments	XML	Container node

userPayment	XML	Zero or more userPayment nodes with same data structure as GetUserPayment service return data.
-------------	-----	--

## InsertUserPayment

This service is used to create a new UserPayment object.

### Request Parameters

Node	Required	Data Type	Description
accountNumber	Yes/No	String	The account number is usually for ACH or eCheck payment method. This value is required for ACH/eCheck payment method.
accountType	Yes/No	Integer	The account type is usually for ACH or eCheck payment method. This value is required for ACH/eCheck payment method. See Account Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/account-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/account-types/rvdwkpvm/section</a> )
businessTaxNumber	No	String	
city	Yes	String	
company	No	String	
countryCode	Yes	String	
creditCardCvv	Yes/No	String	The credit card verification value. You are not allowed to store this value in permanent storage under any circumstances. This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.
creditCardExpiryMonth	Yes/No	String	This should be a numeric representation of the month ranging from 1 to 12. You may also represent it with a leading zero as 01 to 12. This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.
creditCardExpiryYear	Yes/No	String	The expiry year. e.g. "2025". This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.
creditCardHint	Yes/No	String	The credit card number hint that will be displayed to the user. This is normally the last 4 digits of the credit card. This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.
creditCardNumber	Yes/No	String	Credit card number. This value is required for credit card payment method. This value is not used if you are providing a ProfileNumber and/or PaymentNumber token.

email	Yes	String	
firstName	Yes	String	
institutionName	Yes/No	String	The institution name usually used by ACH/eCheck payment method. This value is required for ACH/eCheck payment method.
institutionNumber	Yes/No	String	The institution number usually used by ACH/eCheck payment method. This value is required for ACH/eCheck payment method.
lastName	Yes	String	
paymentHint	Yes/No	String	Payment hint to help customers identify their payment information.
paymentMethod	Yes	Integer	The payment method type. See Payment Method Types ( <a href="https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-method-types/rvdwkpvm/section">https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/payment-method-types/rvdwkpvm/section</a> ).
paymentNumber	Yes/No	String	Identifier associated with the payment gateway's payment profile record. This payment token if available may be used in place of the credit card number.
phone	Yes	String	
postalCode	Yes	String	
profileNumber	Yes/No	String	Identifier associated with the payment gateway's payment profile record. This profile token if available may be used in place of the credit card number.
street	Yes	String	
subdivisionCode	Yes	String	
userID	Yes	Integer	Identifier associated with the user account.
userPaymentID	Yes/No	Integer	The object unique identifier. This value is required when updating a UserPayment object.
voucherCode	Yes/No	String	Voucher code. This value is required for voucher payment method.
voucherHint	Yes/No	String	Voucher hint to help customers identify their voucher information. Normally the last 4 digits of the voucher code. This value is used for voucher payment method.

### Return Data

Same as GetUserPayment service return data.

## UpdateUserPayment

This service is used update a UserPayment object.

### **Request Parameters**

See InsertUserPayment service request.

### **Return Data**

Same as GetUserPayment service return data.

# Voucher

A Voucher is a payment method often used as gift certificate, gift card, store credit, etc..

## DeleteVoucher

This service is used to delete a Voucher object.

### Request Parameters

Node	Required	Data Type	Description
voucherID	Yes	Integer	The object identifier.

### Return Data

None

## GetVoucher

This service is used to query the Voucher object.

### Request Parameters

Node	Required	Data Type	Description
voucherID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
voucher	XML	
adminNotes	String	Administrator notes not shown to customer.
amount	Decimal	The remaining balance in the voucher.
assignedUserID	Integer	The voucher may be assigned to a user.
code	String	The unique code to redeem the voucher.
createDate	DateTime	
initialAmount	Decimal	The initial starting amount when the voucher was created.

issueDate	DateTime	The date when the voucher was first created.
portalID	Integer	
salesOrderDetailID	Integer	The corresponding sales order detail object identifier if this voucher was generate from the order.
status	Integer	The status of the voucher. Inactive = 1, Active = 2, Hold = 3, Cancelled = 4
updateDate	DateTime	
voucherDefinitionID	Integer	The object identifier of the voucher definition.
voucherID	Integer	The object identifier.

## GetVoucherByCode

This service is used to query the Voucher object.

### Request Parameters

Node	Required	Data Type	Description
code	Yes	String	The voucher code.

### Return Data

Same data structure as GetVoucher service return data.

## GetVouchers

This service is used to query all the Voucher objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
vouchers	XML	Container node
voucher	XML	Zero or more Voucher nodes with same data structure as GetVoucher service return data.

## GetVouchersByVoucherDefinition

This service is used to query all the Voucher objects.

### Request Parameters

Node	Required	Data Type	Description
voucherDefinitionID	Yes	Integer	The VoucherDefinition object identifier.

### Return Data

Node	Data Type	Description
vouchers	XML	Container node
voucher	XML	Zero or more Voucher nodes with same data structure as GetVoucher service return data.

## InsertVoucher

This service is used to create a new Voucher object.

### Request Parameters

Node	Required	Data Type	Description
adminNotes	No	String	Administrator notes not shown to customer.
amount	Yes	Decimal	The remaining balance in the voucher.
assignedUserID	No	Integer	The voucher may be assigned to a user.
code	Yes	String	The unique code to redeem the voucher.
maxRedemption	No	Integer	Max number of times the voucher can be redeemed.
salesOrderDetailID	No	Integer	The corresponding sales order detail object identifier if this voucher was generate from the order.
status	Yes	Integer	The status of the voucher. Inactive = 1, Active = 2, Hold = 3, Cancelled = 4
voucherDefinitionID	Yes	Integer	The object identifier of the voucher definition.

### Return Data

Same as GetVoucher service return data.

## UpdateVoucher

This service is used to update a Voucher object.

### Request Parameters

Node	Required	Data Type	Description
adminNotes	No	String	Administrator notes not shown to customer.
amount	Yes	Decimal	The remaining balance in the voucher.
assignedUserID	No	Integer	The voucher may be assigned to a user.
code	Yes	String	The unique code to redeem the voucher.
maxRedemption	No	Integer	Max number of times the voucher can be redeemed.
salesOrderDetailID	No	Integer	The corresponding sales order detail object identifier if this voucher was generate from the order.
status	Yes	Integer	The status of the voucher. Inactive = 1, Active = 2, Hold = 3, Cancelled = 4
voucherDefinitionID	Yes	Integer	The object identifier of the voucher definition.
voucherID	Yes	Integer	The object identifier.

### Return Data

Same as GetVoucher service return data.



# VoucherDefinition

A VoucherDefinition is a definition template used to create Voucher objects.

## GetVoucherDefinition

This service is used to query the VoucherDefinition object.

### Request Parameters

Node	Required	Data Type	Description
voucherDefinitionID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
voucherDefinition	XML	
active	Boolean	Indicates if definition is valid and vouchers can be redeemed.
amount	Decimal	The default amount to create in the voucher.
createdDate	DateTime	
description	XML Locale	
expiryInterval	Interval	A non-zero value indicates the voucher will expire after the amount of period from the issue date.
expiryIntervalType	Integer	Day = 1, Week = 2, Month = 3, Year = 4
name	XML Locale	
paymentLimitType	Integer	The maximum amount that can be redeemed in a single order. Total amount = 1, Sub total amount = 2
portalID	Integer	
startDate	DateTime	If non-empty, indicates the start date when voucher is redeemable.
stopDate	DateTime	If non-empty, indicates the stop date when voucher is no longer redeemable.

transferable	Boolean	Indicates if the voucher can be used by any user or only by the current assigned user.
updateDate	DateTime	
voucherDefinitionID	Integer	The object identifier of the voucher definition.

---

## GetVoucherDefinitions

This service is used to query all the VoucherDefinition objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
voucherDefinitions	XML	Container node
voucherDefinition	XML	Zero or more Voucher nodes with same data structure as GetVoucherDefinition service return data.

# Warehouse

A Warehouse object is to manage warehouses in your system.

## GetActiveWarehouse

This service is used to query the Warehouse object.

### Request Parameters

Node	Required	Data Type	Description
warehouseID	Yes	Integer	The object identifier.

### Return Data

Node	Data Type	Description
warehouse	XML	
city	String	
countryCode	String	
countryName	String	
createDate	DateTime	
description	XML Locale	
email	String	
name	XML Locale	
phone	String	
portalID	Integer	
postalCode	String	
sellerID	Integer	The seller object identifier.
street	String	

subdivisionCode	String	
subdivisionName	String	
updateDate	DateTime	
warehouseID	Integer	The object identifier.
warehouseKey	String	A unique key that can be used to uniquely identify this object. This could be a short meaningful text or simply a GUID.

---

## GetActiveWarehouses

This service is used to query all the Warehouse objects.

### Request Parameters

None

### Return Data

Node	Data Type	Description
warehouses	XML	Container node
warehouse	XML	Zero or more Warehouse nodes with same data structure as GetActiveWarehouse service return data.

# Examples

## Export order (Powershell)

Here's a simple example using Powershell to export pending orders to send for fulfillment via email.

```

1 # SalesOrderExport.ps1
2 #
3 #
4 # This script will export all pending orders with products belonging to
5 # a distributor and send the CSV file using email.
6 # It will keep track of all the order details fulfilled in a local file.
7 # It will mark the order as shipped and completed when every order detail
8 # has been fulfilled.
9 #####
10
11 # Configuration
12 #####
13
14 $APIKey = '00000000-0000-0000-0000-000000000000'
15 $APIUrl = 'http://domain.com/DesktopModules/Revindex.Dnn.RevindexStorefront/Api/Rest/V1/ServiceHandler.ashx?portalid=0'
16 $APIUsername = 'host'
17
18 # Number of days to look back at orders
19 $BackOrderDays = -7
20
21 # The distributor to match
22 $DistributorID = 1
23
24 $FulfillmentEmailBody = 'Order fulfillment text body'
25
26 # The email(s) to send fulfillment file. Separated multiple emails by semicolon.
27 $FulfillmentEmailRecipient = 'vendor@localhost.com'
28
29 $FulfillmentEmailSender = 'support@localhost.com'
30 $FulfillmentEmailSubject = 'Order fulfillment'
31 $FulfillmentFileName = ('Fulfillment.' + [DateTime]::Now.ToString('yyyyMMdd') + '.txt')
32
33 $LogFileName = ('Log.' + [DateTime]::Now.ToString('yyyyMMdd') + '.txt')
34
35 $NetworkTimeout = 30000
36
37 # The email(s) to notify on success/error. Separated multiple emails by semicolon.
38 $NotificationRecipient = 'support@localhost.com'
39
40 $NotificationSender = 'support@localhost.com'
41
42 $OrderCompletionFileName = 'OrderCompletion.txt'
43
44 $SMTPPassword = 'xxxxxx'
45 $SMTPServer = 'mail.localhost.com'
46 $SMTPUser = 'mailer'
47
48 # The folder to store files, logs, etc. defaults to the current execution path
49 $WorkingFolder = ((Split-Path $MyInvocation.MyCommand.Path) + '\')
50
51 # Functions
52 #####
53
54 # Function to help post HTTP request to web service
55 Function PostWebRequest([String] $url, [String] $data, [int] $timeout)
56 {
57     $buffer = [System.Text.Encoding]::UTF8.GetBytes($data)
58     [System.Net.HttpWebRequest] $webRequest = [System.Net.WebRequest]::Create($url)
59     $webRequest.Timeout = $timeout
60     $webRequest.Method = "POST"
61     $webRequest.ContentType = "application/x-www-form-urlencoded"
62     $webRequest.ContentLength = $buffer.Length;
63
64     $requestStream = $webRequest.GetRequestStream()
65     $requestStream.Write($buffer, 0, $buffer.Length)
66     $requestStream.Flush()
67     $requestStream.Close()
68
69     [System.Net.HttpWebResponse] $webResponse = $webRequest.GetResponse()
70     $streamReader = New-Object System.IO.StreamReader($webResponse.GetResponseStream())
71     $result = $streamReader.ReadToEnd()
72     return $result
73 }
74
75
76

```

```

9 # Function to send email
9 Function SendEmail([String]$smtpServer, [String] $smtpUser, [String] $smtpPassword, [String] $sender, [String]
5 $recipient, [String] $subject, [String] $body, [String] $attachment)
9 {
0     $msg = New-Object System.Net.Mail.MailMessage
0     $msg.From = $sender
0     $msg.ReplyTo = $sender
0
0     foreach ($r in $recipient.Split(';'))
0     {
0         if ($r)
0         {
0             $msg.To.Add($r)
0         }
0     }
0     $msg.subject = $subject
0     $msg.body = $body
0
0     if ($attachment -and [System.IO.File]::Exists($attachment))
0     {
0         $att = New-Object System.Net.Mail.Attachment($attachment)
0         $msg.Attachments.Add($att)
0     }
0
0     $smtp = New-Object System.Net.Mail.SmtpClient($smtpServer)
0     $smtp.Credentials = New-Object System.Net.NetworkCredential($smtpUser, $smtpPassword);
0     $smtp.Send($msg)
0 }
0
2 # Start program
2 #####
2
0 Try
2 {
2     # Load order completion data into array
2     $OrderCompletion = @()
2     if ([System.IO.File]::Exists($WorkingFolder + $OrderCompletionFileName))
2     {
2         $OrderCompletion = @(Import-Csv ($WorkingFolder + $OrderCompletionFileName))
2     }
2
2     # Get sales orders needing to be fulfilled
2     $StartDate = [DateTime]::Now.AddDays($BackOrderDays).ToString("s")
2     $StopDate = [DateTime]::Now.ToString("s")
2
2     $xRequest = [Xml] "
2
2 1.0
2
2 $APIUsername
2 $APIKey
2
2 GetSalesOrdersByDateRange
2
2 $StartDate
2 $StopDate
2
2 "
2 [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
2 if ($xResponse.response.code -ne '2000')
2 {
2     Throw New-Object System.InvalidOperationException("Error executing GetSalesOrdersByDateRange. Response: " +
2 $xResponse.response.code + ' ' + $xResponse.response.message)
2 }
2 [System.Xml.XmlElement]$salesOrders = $xResponse.SelectSingleNode('/response/return/salesOrders')
2 foreach ($salesOrder in $salesOrders.SelectNodes('salesOrder'))
2 {
2     # Look for pending order status
2     if ($salesOrder.status -eq '1')
2     {
2         # Query sales order details
2         $xRequest = [Xml] ("
2
2 1.0
2
2 $APIUsername
2 $APIKey
2
2 GetSalesOrderDetails
2
2 " + $salesOrder.salesOrderID + "
2 $StopDate
2
2 ")
2 [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
2 if ($xResponse.response.code -ne '2000')
2 {
2     Throw New-Object System.InvalidOperationException("Error executing GetSalesOrderDetails. Response: " +
2 $xResponse.response.code + ' ' + $xResponse.response.message)
2 }
2 }
2 }

```



```

3 [System.Xml.XmlElement]$salesOrderDetails = $xResponse.SelectSingleNode('/response/return/salesOrderDetails')
4 foreach ($salesOrderDetail in $salesOrderDetails.SelectNodes('salesOrderDetail'))
5 {
6     # Make sure we haven't already fulfilled this sales order detail otherwise we can skip it
7     if (($OrderCompletion | Where-Object {$_.SalesOrderDetailID -eq $salesOrderDetail.salesOrderDetailID}))
8     {
9         continue
10    }
11    # Query product info for matching distributor
12    $xRequest = [Xml] ("
13
14    1.0
15
16    $APIUsername
17    $APIKey
18
19    GetActiveProductVariant
20
21    " + $salesOrderDetail.productVariantID + "
22
23    ")
24    [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
25    if ($xResponse.response.code -ne '2000')
26    {
27        Throw New-Object System.InvalidOperationException("Error executing GetActiveProductVariant. Response: " +
28        $xResponse.response.code + ' ' + $xResponse.response.message)
29    }
30    $productVariant = $xResponse.response.return.productVariant
31    if ($productVariant.distributorID -eq $DistributorID)
32    {
33        # Append data to CSV file
34        if (![System.IO.File]::Exists($WorkingFolder + $FulfillmentFileName))
35        {
36            # Write CSV headers
37            ('Date,SalesOrderID,SalesOrderDetailID,SKU,DistributorSKU,Quantity') >> ($WorkingFolder +
38            $FulfillmentFileName)
39        }
40        # Append data to CSV
41        ($salesOrder.orderDate + ',' + $salesOrder.salesOrderID + ',' + $salesOrderDetail.salesOrderDetailID + ',' +
42        $productVariant.sku + ',' + $productVariant.distributorSKU + ',' + $salesOrderDetail.quantity) >>
43        ($WorkingFolder + $FulfillmentFileName)
44        # Keep track of completed sales order details. Add order detail to our tracking array
45        $OrderCompletion += New-Object -TypeName PSObject -Property @{ DistributorID = $DistributorID
46        Date = [DateTime]::Now.ToString("s")
47        SalesOrderID = $salesOrder.salesOrderID
48        SalesOrderDetailID = $salesOrderDetail.salesOrderDetailID }
49    }
50    }
51    # Update order status to Completed and Shipped if all sales order details have been accounted for.
52    $orderIsComplete = $true
53    foreach ($salesOrderDetail in $salesOrderDetails.SelectNodes('salesOrderDetail'))
54    {
55        if (!($OrderCompletion | Where-Object {$_.SalesOrderDetailID -eq $salesOrderDetail.salesOrderDetailID}))
56        {
57            $orderIsComplete = $false
58            break
59        }
60    }
61    if ($orderIsComplete)
62    {
63        # Update order status to shipped (3) and order completed (4).
64        $xRequest = [Xml] ("
65
66        1.0
67
68        $APIUsername
69        $APIKey
70
71        UpdateSalesOrder
72
73        " + $salesOrder.salesOrderID + "
74        " + $salesOrder.salesPaymentStatus + "
75
76        3
77        4
78
79        ")
80        [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
81        if ($xResponse.response.code -ne '2000')
82        {
83            Throw New-Object System.InvalidOperationException("Error executing UpdateSalesOrder. Response: " +
84            $xResponse.response.code + ' ' + $xResponse.response.message)
85        }
86        # Remove records from order completion tracking belonging to this order
87        $OrderCompletion = @($OrderCompletion | Where-Object { $_.SalesOrderID -ne $salesOrder.salesOrderID })
88    }
89    }
90    # Send email to fulfill orders
91    if ([System.IO.File]::Exists($WorkingFolder + $FulfillmentFileName))
92    {
93        SendEmail $SMTPServer $SMTPUser $SMTPPassword $FulfillmentEmailSender $FulfillmentEmailRecipient
94        $FulfillmentEmailSubject $FulfillmentEmailBody ($WorkingFolder + $FulfillmentFileName)
95    }
96    # Persist tracking to order completion file

```

```

2 $OrderCompletion | Export-Csv -NoTypeInfo ($WorkingFolder + $OrderCompletionFileName)
2 # Log completion
2 ([DateTime]::Now.ToString("s") + "`t" + 'Fulfillment completed successfully') >> ($WorkingFolder +
3 $LogFileName)
2 # Notify progress
2 SendEmail $SMTPServer $SMTPUser $SMTPPassword $NotificationSender $NotificationRecipient 'Fulfillment
7 completed successfully' 'Fulfillment completed successfully' ($WorkingFolder + $LogFileName)
2 }
2 Catch
2 {
2 # Log errors
2 ([DateTime]::Now.ToString("s") + "`t" + $_.Exception.Message) >> ($WorkingFolder + $LogFileName)
2 # Notify error
2 SendEmail $SMTPServer $SMTPUser $SMTPPassword $NotificationSender $NotificationRecipient 'Fulfillment failed'
6 'Fulfillment failed' ($WorkingFolder + $LogFileName)
2 }
2
2

```

## Export order 2 (Powershell)

Here's a simple example using Powershell to export pending orders to send for fulfillment via email.

```
1
2 # SalesOrderExport2.ps1
3 #
4 # This script will export all pending orders with products belonging to
5 # a distributor and send the CSV file using email.
6 # It will mark the SalesOrderDetail object as shipped and the entire
7 # SalesOrder as completed when every order detail has been fulfilled.
8 #####
9
10
11 # Configuration
12 #####
13
14 $APIKey = '00000000-0000-0000-0000-000000000000'
15 $APIUrl = 'http://domain.com/DesktopModules/Reindex.Dnn.ReindexStorefront/Api/Rest/V1/ServiceHandler.ashx?portalid=0'
16 $APIUsername = 'host'
17
18 # Number of days to look back at orders
19 $BackOrderDays = -7
20
21 # The distributor to match
22 $DistributorID = 1
23
24 $FulfillmentEmailBody = 'Order fulfillment text body'
25
26
27 # The email(s) to send fulfillment file. Separated multiple emails by semicolon.
28 $FulfillmentEmailRecipient = 'vendor@localhost.com'
29
30 $FulfillmentEmailSender = 'support@localhost.com'
31 $FulfillmentEmailSubject = 'Order fulfillment'
32 $FulfillmentFileName = ('Fulfillment.' + [DateTime]::Now.ToString('yyyyMMdd') + '.txt')
33
34 $LogFileName = ('Log.' + [DateTime]::Now.ToString('yyyyMMdd') + '.txt')
35
36 $NetworkTimeout = 30000
37
38
39 # The email(s) to notify on success/error. Separated multiple emails by semicolon.
40 $NotificationRecipient = 'support@localhost.com'
41
42 $NotificationSender = 'support@localhost.com'
43
44 $SMTPPassword = 'xxxxxx'
45 $SMTPServer = 'mail.localhost.com'
46 $SMTPUser = 'mailer'
47
48 # The folder to store files, logs, etc. defaults to the current execution path
49 $WorkingFolder = ((Split-Path $MyInvocation.MyCommand.Path) + '\')
50
51
52 # Functions
53 #####
54
55
56 # Function to help post HTTP request to web service
57 Function PostWebRequest([String] $url, [String] $data, [int] $timeout)
58 {
59     $buffer = [System.Text.Encoding]::UTF8.GetBytes($data)
60     [System.Net.HttpWebRequest] $webRequest = [System.Net.WebRequest]::Create($url)
61     $webRequest.Timeout = $timeout
62     $webRequest.Method = "POST"
63     $webRequest.ContentType = "application/x-www-form-urlencoded"
64     $webRequest.ContentLength = $buffer.Length;
65
66     $requestStream = $webRequest.GetRequestStream()
67     $requestStream.Write($buffer, 0, $buffer.Length)
68     $requestStream.Flush()
69     $requestStream.Close()
70
71     [System.Net.HttpWebResponse] $webResponse = $webRequest.GetResponse()
72     $streamReader = New-Object System.IO.StreamReader($webResponse.GetResponseStream())
73     $result = $streamReader.ReadToEnd()
74     return $result
75 }
76
77
78 # Function to send email
```

```

79 Function SendEmail([String]$smtpServer, [String] $smtpUser, [String] $smtpPassword, [String] $sender, [String]
$recipient, [String] $subject, [String] $body, [String] $attachment)
80 {
81     $msg = New-Object System.Net.Mail.MailMessage
82     $msg.From = $sender
83     $msg.ReplyTo = $sender
84
85     foreach ($r in $recipient.Split(';'))
86     {
87         if ($r)
88         {
89             $msg.To.Add($r)
90         }
91     }
92     $msg.subject = $subject
93     $msg.body = $body
94
95     if ($attachment -and [System.IO.File]::Exists($attachment))
96     {
97         $att = New-Object System.Net.Mail.Attachment($attachment)
98         $msg.Attachments.Add($att)
99     }
100
101     $smtp = New-Object System.Net.Mail.SmtpClient($smtpServer)
102     $smtp.Credentials = New-Object System.Net.NetworkCredential($smtpUser, $smtpPassword);
103     $smtp.Send($msg)
104 }
105
106
107 # Start program
108 #####
109
110
111 Try
112 {
113     # Get sales orders needing to be fulfilled
114     $StartDate = [DateTime]::Now.AddDays($BackOrderDays).ToString("s")
115     $StopDate = [DateTime]::Now.ToString("s")
116
117     $xRequest = [Xml] "<?xml version='1.0' encoding='utf-8'?>
118         <request>
119             <version>1.0</version>
120             <credential>
121                 <username>$APIUsername</username>
122                 <apiKey>$APIKey</apiKey>
123             </credential>
124             <service>GetSalesOrdersByDateRange</service>
125             <parameters>
126                 <startDate>$StartDate</startDate>
127                 <stopDate>$StopDate</stopDate>
128             </parameters>
129         </request>"
130
131
132     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
133     if ($xResponse.response.code -ne '2000')
134     {
135         Throw New-Object System.InvalidOperationException("Error executing GetSalesOrdersByDateRange. Response: "
+ $xResponse.response.code + ' ' + $xResponse.response.message)
136     }
137     [System.Xml.XmlElement]$salesOrders = $xResponse.SelectSingleNode('/response/return/salesOrders')
138
139     foreach ($salesOrder in $salesOrders.SelectNodes('salesOrder'))
140     {
141         # Look for pending order status
142         if ($salesOrder.status -eq '1')
143         {
144             # Query sales order details
145             $xRequest = [Xml] ("<?xml version='1.0' encoding='utf-8'?>
146                 <request>
147                     <version>1.0</version>
148                     <credential>
149                         <username>$APIUsername</username>
150                         <apiKey>$APIKey</apiKey>
151                     </credential>
152                     <service>GetSalesOrderDetails</service>
153                     <parameters>
154                         <salesOrderID>" + $salesOrder.salesOrderID + "</salesOrderID>
155                     </parameters>
156                 </request>")
157
158
159             [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
160             if ($xResponse.response.code -ne '2000')
161             {
162                 Throw New-Object System.InvalidOperationException("Error executing GetSalesOrderDetails. Response:
" + $xResponse.response.code + ' ' + $xResponse.response.message)
163             }
164             [System.Xml.XmlElement]$salesOrderDetails =
$xResponse.SelectSingleNode('/response/return/salesOrderDetails')
165
166             foreach ($salesOrderDetail in $salesOrderDetails.SelectNodes('salesOrderDetail'))
167             {
168                 # Make sure we haven't already fulfilled this sales order detail otherwise we can skip it

```

```

169         if ($salesOrderDetail.shippingStatus -ne '2')
170         {
171             continue
172         }
173
174         # Query product info for matching distributor
175         $xRequest = [Xml] ("<?xml version='1.0' encoding='utf-8'?>
176             <request>
177                 <version>1.0</version>
178                 <credential>
179                     <username>$APIUsername</username>
180                     <apiKey>$APIKey</apiKey>
181                 </credential>
182                 <service>GetActiveProductVariant</service>
183                 <parameters>
184                     <productVariantID>" + $salesOrderDetail.productVariantID + "
185 </productVariantID>
186                 </parameters>
187             </request>")
188
189         [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
190         if ($xResponse.response.code -ne '2000')
191         {
192             Throw New-Object System.InvalidOperationException("Error executing GetActiveProductVariant.
Response: " + $xResponse.response.code + ' ' + $xResponse.response.message)
193         }
194         $productVariant = $xResponse.response.return.productVariant
195
196         if ($productVariant.distributorID -eq $DistributorID)
197         {
198             # Append data to CSV file
199             if (![System.IO.File]::Exists($WorkingFolder + $FulfillmentFileName))
200             {
201                 # Write CSV headers
202                 ('Date,SalesOrderID,SalesOrderDetailID,SKU,DistributorSKU,Quantity') >> ($WorkingFolder +
$FulfillmentFileName)
203             }
204
205             # Append data to CSV
206             ($salesOrder.orderDate + ',' + $salesOrder.salesOrderID + ',' +
$salesOrderDetail.salesOrderDetailID + ',' + $productVariant.sku + ',' + $productVariant.distributorSKU + ',' +
$salesOrderDetail.quantity) >> ($WorkingFolder + $FulfillmentFileName)
207
208             # Mark SalesOrderDetail as shipped
209             $salesOrderDetail.shippingStatus = '3'
210
211             # Update order detail shipping status to shipped (3).
212             $xRequest = [Xml] ("<?xml version='1.0' encoding='utf-8'?>
213                 <request>
214                     <version>1.0</version>
215                     <credential>
216                         <username>$APIUsername</username>
217                         <apiKey>$APIKey</apiKey>
218                     </credential>
219                     <service>UpdateSalesOrderDetail</service>
220                     <parameters>
221                         <salesOrderDetailID>" + $salesOrderDetail.salesOrderDetailID + "
222 </salesOrderDetailID>
223                         <shippingStatus>3</shippingStatus>
224                     </parameters>
225                 </request>")
226
227             [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
228             if ($xResponse.response.code -ne '2000')
229             {
230                 Throw New-Object System.InvalidOperationException("Error executing UpdateSalesOrderDetail.
Response: " + $xResponse.response.code + ' ' + $xResponse.response.message)
231             }
232         }
233     }
234
235     # Update order status to Completed and Shipped if all sales order details have been accounted for.
236     $orderIsComplete = $true
237     foreach ($salesOrderDetail in $salesOrderDetails.SelectNodes('salesOrderDetail'))
238     {
239         if ($salesOrderDetail.shippingStatus -eq '2' -or $salesOrderDetail.shippingStatus -eq '4')
240         {
241             $orderIsComplete = $false
242             break
243         }
244     }
245
246     if ($orderIsComplete)
247     {
248         # Update order status to shipped (3) and order completed (4).
249         $xRequest = [Xml] ("<?xml version='1.0' encoding='utf-8'?>
250             <request>
251                 <version>1.0</version>
252                 <credential>
253                     <username>$APIUsername</username>
254                     <apiKey>$APIKey</apiKey>
255                 </credential>

```

```

256         <parameters>
257             <salesOrderID>" + $salesOrder.salesOrderID + "</salesOrderID>
258             <salesPaymentStatus>" + $salesOrder.salesPaymentStatus + "</salesPaymentStatus>
259             <shippingStatus>3</shippingStatus>
260             <status>4</status>
261         </parameters>
262     </request>")
263
264     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
265     if ($xResponse.response.code -ne '2000')
266     {
267         Throw New-Object System.InvalidOperationException("Error executing UpdateSalesOrder. Response:
" + $xResponse.response.code + ' ' + $xResponse.response.message)
268     }
269 }
270 }
271 }
272
273 # Send email to fulfill orders
274 if ([System.IO.File]::Exists($WorkingFolder + $FulfillmentFileName))
275 {
276     SendEmail $SMTPServer $SMTPUser $SMTPPassword $FulfillmentEmailSender $FulfillmentEmailRecipient
277     $FulfillmentEmailSubject $FulfillmentEmailBody ($WorkingFolder + $FulfillmentFileName)
278 }
279
280 # Log completion
281 ([DateTime]::Now.ToString("s") + "`t" + 'Fulfillment completed successfully') >> ($WorkingFolder +
282 $LogFileName)
283
284 # Notify progress
285 SendEmail $SMTPServer $SMTPUser $SMTPPassword $NotificationSender $NotificationRecipient 'Fulfillment
286 completed successfully' 'Fulfillment completed successfully' ($WorkingFolder + $LogFileName)
287 }
288
289 Catch
290 {
291     # Log errors
292     ([DateTime]::Now.ToString("s") + "`t" + $_.Exception.Message) >> ($WorkingFolder + $LogFileName)
293
294     # Notify error
295     SendEmail $SMTPServer $SMTPUser $SMTPPassword $NotificationSender $NotificationRecipient 'Fulfillment failed'
296     'Fulfillment failed' ($WorkingFolder + $LogFileName)
297 }

```

# Export products (Powershell)

The following simple example exports out all the products to an XML file.

```
1
2 # BidOrBuyExport.ps1
3 #
4 # This script will export all active products to a XML file.
5 #####
6
7
8 # Configuration
9 #####
10 $APIKey = '0000000-0000-0000-0000-000000000'
11 $APIUrl = 'http://site.com/DesktopModules/Revindex.Dnn.RevindexStorefront/Api/Rest/V1/ServiceHandler.ashx?portalid=0'
12 $APIUsername = 'host'
13
14 $Condition = 'New'
15
16 $FeedFileName = ('Feed.' + [DateTime]::Now.ToString('yyyyMMdd') + '.xml')
17
18 $Location = 'Johannesburg'
19
20 $LogFileName = ('Log.' + [DateTime]::Now.ToString('yyyyMMdd') + '.txt')
21
22 $NetworkTimeout = 30000
23
24
25 # The email(s) to notify on success/error. Separated multiple emails by semicolon.
26 $NotificationRecipient = 'support@localhost.com'
27 $NotificationSender = 'support@localhost.com'
28
29 $ShippingOption = 'MediumShipping'
30
31 $SiteUrl = 'http://site.com'
32
33 $SMTPPassword = 'xxxxxx'
34 $SMTPServer = 'mail.localhost.com'
35 $SMTPUser = 'mailer'
36
37
38 # The folder to store files, logs, etc. defaults to the current execution path
39 $WorkingFolder = ((Split-Path $MyInvocation.MyCommand.Path) + '\')
40
41
42 # Functions
43 #####
44
45 # Function to help post HTTP request to web service
46 Function PostWebRequest([String] $url, [String] $data, [int] $timeout)
47 {
48     $buffer = [System.Text.Encoding]::UTF8.GetBytes($data)
49     [System.Net.HttpWebRequest] $webRequest = [System.Net.WebRequest]::Create($url)
50     $webRequest.Timeout = $timeout
51     $webRequest.Method = "POST"
52     $webRequest.ContentType = "application/x-www-form-urlencoded"
53     $webRequest.ContentLength = $buffer.Length
54
55     $requestStream = $webRequest.GetRequestStream()
56     $requestStream.Write($buffer, 0, $buffer.Length)
57     $requestStream.Flush()
58     $requestStream.Close()
59
60     [System.Net.HttpWebResponse] $webResponse = $webRequest.GetResponse()
61     $streamReader = New-Object System.IO.StreamReader($webResponse.GetResponseStream())
62     $result = $streamReader.ReadToEnd()
63     return $result
64 }
65
66
67 # Function to send email
68 Function SendEmail([String]$smtpServer, [String] $smtpUser, [String] $smtpPassword, [String] $sender, [String]
69 $recipient, [String] $subject, [String] $body, [String] $attachment)
70 {
71     $msg = New-Object System.Net.Mail.MailMessage
72     $msg.From = $sender
73     $msg.ReplyTo = $sender
74
75     foreach ($r in $recipient.Split(';'))
76     {
77         if ($r)
78         {
79             $msg.To.Add($r)
80         }
81     }
82 }
```

```

79     }
80 }
81 $msg.subject = $subject
82 $msg.body = $body
83
84 if ($attachment -and [System.IO.File]::Exists($attachment))
85 {
86     $att = New-Object System.Net.Mail.Attachment($attachment)
87     $msg.Attachments.Add($att)
88 }
89
90 $smtp = New-Object System.Net.Mail.SmtpClient($smtpServer)
91 $smtp.Credentials = New-Object System.Net.NetworkCredential($smtpUser, $smtpPassword);
92 $smtp.Send($msg)
93 }
94
95
96 # Start program
97 #####
98 Try
99 {
100     # Create feed
101     [Xml]$xFeed = [Xml] "<?xml version='1.0' encoding='utf-8'?>
102 <Root/>"
103
104     $xProducts = $xFeed.CreateElement('Products')
105     $xFeed.SelectSingleNode("/Root").AppendChild($xProducts)
106
107 # Get categories
108 $xRequest = [Xml] "<?xml version='1.0' encoding='utf-8'?>
109     <request>
110         <version>1.0</version>
111         <credential>
112             <username>$APIUsername</username>
113             <apiKey>$APIKey</apiKey>
114         </credential>
115         <service>GetCategories</service>
116         <parameters>
117             </parameters>
118     </request>"
119
120 [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
121 if ($xResponse.response.code -ne '2000')
122 {
123     Throw New-Object System.InvalidOperationException("Error executing GetCategories. Response: " +
124 $xResponse.response.code + ' ' + $xResponse.response.message)
125 }
126 [System.Xml.XmlElement]$categories = $xResponse.SelectSingleNode('/response/return/categories')
127
128 # Get product categories
129 $xRequest = [Xml] "<?xml version='1.0' encoding='utf-8'?>
130     <request>
131         <version>1.0</version>
132         <credential>
133             <username>$APIUsername</username>
134             <apiKey>$APIKey</apiKey>
135         </credential>
136         <service>GetProductCategoriesByPortal</service>
137         <parameters>
138             </parameters>
139     </request>"
140
141 [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
142 if ($xResponse.response.code -ne '2000')
143 {
144     Throw New-Object System.InvalidOperationException("Error executing GetProductCategories. Response: " +
145 $xResponse.response.code + ' ' + $xResponse.response.message)
146 }
147 [System.Xml.XmlElement]$productCategories = $xResponse.SelectSingleNode('/response/return/productCategories')
148
149 # Get variants
150 $xRequest = [Xml] "<?xml version='1.0' encoding='utf-8'?>
151     <request>
152         <version>1.0</version>
153         <credential>
154             <username>$APIUsername</username>
155             <apiKey>$APIKey</apiKey>
156         </credential>
157         <service>GetActiveProductVariantsByPortal</service>
158         <parameters>
159             </parameters>
160     </request>"
161
162 [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
163 if ($xResponse.response.code -ne '2000')
164 {
165     Throw New-Object System.InvalidOperationException("Error executing GetActiveProductVariantsByPortal.
166 Response: " + $xResponse.response.code + ' ' + $xResponse.response.message)
167 }
168 [System.Xml.XmlElement]$productVariants = $xResponse.SelectSingleNode('/response/return/productVariants')
169
170 # Get products
171 $xRequest = [Xml] "<?xml version='1.0' encoding='utf-8'?>
172     <request>

```



```

170         <version>1.0</version>
171         <credential>
172             <username>$APIUsername</username>
173             <apiKey>$APIKey</apiKey>
174         </credential>
175         <service>GetActiveProducts</service>
176         <parameters>
177             </parameters>
178     </request>"
179
180     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
181     if ($xResponse.response.code -ne '2000')
182     {
183         Throw New-Object System.InvalidOperationException("Error executing GetActiveProducts. Response: " +
184 $xResponse.response.code + ' ' + $xResponse.response.message)
185     }
186     [System.Xml.XmlElement]$products = $xResponse.SelectSingleNode('/response/return/products')
187     foreach ($product in $products.SelectNodes('product'))
188     {
189         # Create feed
190         $xProduct = $xFeed.CreateElement('Product')
191         $xProducts.AppendChild($xProduct)
192
193         $xProductCode = $xFeed.CreateElement('ProductCode')
194         $xProductCode.InnerText = $product.productID
195         $xProduct.AppendChild($xProductCode)
196
197         $xTitle = $xFeed.CreateElement('Title')
198         if (![String]::IsNullOrEmpty($product.name))
199         {
200             $xTitle.InnerText = $product.name.locale.GetAttribute("en-US")
201         }
202         $xProduct.AppendChild($xTitle)
203
204         # Find first category associated with product
205         foreach ($productCategory in $productCategories.SelectNodes('productCategory'))
206         {
207             if ($productCategory.productID -eq $product.productID)
208             {
209                 foreach ($category in $categories.SelectNodes('category'))
210                 {
211                     if ($category.categoryID -eq $productCategory.categoryID)
212                     {
213                         $xCategory = $xFeed.CreateElement('Category')
214
215                         if (![String]::IsNullOrEmpty($category.name))
216                         {
217                             $xCategory.InnerText = $category.name.locale.GetAttribute("en-US")
218                         }
219                         $xProduct.AppendChild($xCategory)
220                     }
221                 }
222             }
223             break
224         }
225
226         # Find product variant
227         foreach ($productVariant in $productVariants.SelectNodes('productVariant'))
228         {
229             if ($productVariant.productID -eq $productVariant.productID)
230             {
231                 $xPrice = $xFeed.CreateElement('Price')
232                 $xPrice.InnerText = $productVariant.basePrice
233                 $xProduct.AppendChild($xPrice)
234
235                 $xQuantity = $xFeed.CreateElement('Quantity')
236                 $xQuantity.InnerText = $productVariant.inventory
237                 $xProduct.AppendChild($xQuantity)
238             }
239             break
240         }
241
242         $xCondition = $xFeed.CreateElement('Condition')
243         $xCondition.InnerText = $Condition
244         $xProduct.AppendChild($xCondition)
245
246         $xLocation = $xFeed.CreateElement('Location')
247         $xLocation.InnerText = $Location
248         $xProduct.AppendChild($xLocation)
249
250         $xShippingOption = $xFeed.CreateElement('ShippingOption')
251         $xShippingOption.InnerText = $ShippingOption
252         $xProduct.AppendChild($xShippingOption)
253
254         # Get galleries
255         $productID = $product.productID
256         $xRequest = [Xml] "<?xml version='1.0' encoding='utf-8'?>
257             <request>
258                 <version>1.0</version>
259                 <credential>

```

```

263         <username>$APIUsername</username>
264         <apiKey>$APIKey</apiKey>
265     </credential>
266     <service>GetGalleriesByProduct</service>
267     <parameters>
268 <productID>$productID</productID>
269     </parameters>
270 </request>"
271
272 [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
273 if ($xResponse.response.code -ne '2000')
274 {
275     Throw New-Object System.InvalidOperationException("Error executing GetGalleriesByProduct. Response: " +
276 $xResponse.response.code + ' ' + $xResponse.response.message)
277 }
278 [System.Xml.XmlElement]$galleries = $xResponse.SelectSingleNode('/response/return/galleries')
279 # Find display gallery
280 $xImageURL = $xFeed.CreateElement('ImageURL')
281 foreach ($gallery in $galleries.SelectNodes('gallery'))
282 {
283 if ($gallery.format -eq 2)
284 {
285 if (![String]::IsNullOrEmpty($gallery.mediaFile))
286 {
287 $xImageURL.InnerText = $SiteUrl + '/DesktopModules/Revindex.Dnn.RevindexStorefront/Portals/0/Gallery/' +
288 $gallery.mediaFile.locale.GetAttribute("en-US")
289 }
290 break
291 }
292 }
293 $xProduct.AppendChild($xImageURL)
294
295 $xDescription = $xFeed.CreateElement('Description')
296
297 if (![String]::IsNullOrEmpty($product.overview))
298 {
299 $xDescription.InnerText = $product.overview.locale.GetAttribute("en-US") + " " +
300 $product.summary.locale.GetAttribute("en-US")
301 }
302 if (![String]::IsNullOrEmpty($product.summary))
303 {
304 $xDescription.InnerText += " " + $product.summary.locale.GetAttribute("en-US")
305 }
306
307 $xProduct.AppendChild($xDescription)
308 }
309
310 # Output file to disk
311 Out-File -FilePath ($WorkingFolder + $FeedFileName) -Encoding "UTF8" -InputObject $xFeed.InnerXml
312
313 # Notify progress
314 SendEmail $SMTPServer $SMTPUser $SMTPPassword $NotificationSender $NotificationRecipient 'Fulfillment
315 completed successfully' 'Fulfillment completed successfully' ($WorkingFolder + $LogFileName)
316 }
317 Catch
318 {
319 # Log errors
320 ([DateTime]::Now.ToString("s") + "`t" + $_.Exception.Message + "`t") >> ($WorkingFolder + $LogFileName)
321
322 # Notify error
323 SendEmail $SMTPServer $SMTPUser $SMTPPassword $NotificationSender $NotificationRecipient 'Feed failed' 'Feed
324 failed' ($WorkingFolder + $LogFileName)
325 }

```

# QuickBooks export customer (Powershell)

You can use the following Powershell script to export your customers information to an IIF file suitable for importing into your QuickBooks software.

```
1 # QuickBooksCustomerExport.ps1
2 #
3 #
4 # This script will export all customer information
5 # to a QuickBooks IIF file.
6 #####
7
8 # Configuration
9 #####
10 param
11 (
12     [parameter(Mandatory = $false)][string]$APIKey = 'xxxxx-xxxxx',
13     [parameter(Mandatory = $false)][string]$APIUrl =
14     'http://my.com/.../Revindex.Dnn.RevindexStorefront/Api/Rest/V1/ServiceHandler.ashx?portalid=0',
15     [parameter(Mandatory = $false)][string]$APIUsername = 'host',
16     [parameter(Mandatory = $false)][string]$OutFile = 'C:\Customers.iif',
17     [parameter(Mandatory = $false)][DateTime]$StartDate = '2001-01-01',
18     [parameter(Mandatory = $false)][DateTime]$StopDate = [DateTime]::Now,
19     [int]$NetworkTimeout = 30000
20 )
21
22 # Functions
23 #####
24 # Function to help post HTTP request to web service
25 Function PostWebRequest([String] $url, [String] $data, [int] $timeout)
26 {
27     $buffer = [System.Text.Encoding]::UTF8.GetBytes($data)
28     [System.Net.HttpWebRequest] $webRequest = [System.Net.WebRequest]::Create($url)
29     $webRequest.Timeout = $timeout
30     $webRequest.Method = "POST"
31     $webRequest.ContentType = "application/x-www-form-urlencoded"
32     $webRequest.ContentLength = $buffer.Length;
33
34
35     $requestStream = $webRequest.GetRequestStream()
36     $requestStream.Write($buffer, 0, $buffer.Length)
37     $requestStream.Flush()
38     $requestStream.Close()
39
40
41     [System.Net.HttpWebResponse] $webResponse = $webRequest.GetResponse()
42     $streamReader = New-Object System.IO.StreamReader($webResponse.GetResponseStream())
43     $result = $streamReader.ReadToEnd()
44     return $result
45 }
46
47 # Start program
48 #####
49 Try
50 {
51     # We need to construct our XML request using the parameter list
52     $strRequest = "<?xml version='1.0' encoding='utf-8'?>
53         <request>
54             <version>1.0</version>
55             <credential>
56                 <username>$APIUsername</username>
57                 <apiKey>$APIKey</apiKey>
58             </credential>
59             <service>GetSalesOrdersByDateRange</service>
60             <parameters>
61                 <startDate>$StartDate</startDate>
62                 <stopDate>$StopDate</stopDate>
63             </parameters>
64         </request>"
65
66     # Execute the API call
67     $xRequest = [Xml] $strRequest
68     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
69     if ($xResponse.response.code -ne '2000')
70     {
71         Write-Host "Error executing GetSalesOrders. Response: " + $xResponse.response.code + ' ' +
72         $xResponse.response.message
73         return
74     }
75
76     [System.Xml.XmlElement]$salesOrders = $xResponse.SelectSingleNode('/response/return/salesOrders')
```

```

77
78 $userIDs = @()
79
80 $qbIIF = @()
81 foreach ($salesOrder in $salesOrders.SelectNodes('salesOrder'))
82 {
83     # Only export unique users
84     if ($userIDs -contains $salesOrder.userID)
85     {
86         continue
87     }
88     else
89     {
90         $userIDs += $salesOrder.userID
91     }
92
93     # Append data to CSV (IIF Format)
94     # http://support.quickbooks.intuit.com/support/Articles/HOW12778
95     # http://www.qblittlesquare.com/2011/07/import-lists-into-quickbooks-with-iif/
96     $qbIIF += New-Object -TypeName PSObject -Property @{
97         "!CUST" = "CUST"
98         "NAME" = $salesOrder.billingLastName + ", " +
99 $salesOrder.billingFirstName
100         "BADDR1" = $salesOrder.billingStreet.Replace("`r", "").Replace("`n",
101 ", ")
102         "BADDR2" = $salesOrder.billingCity
103         "BADDR3" = $salesOrder.billingSubdivisionCode
104         "BADDR4" = $salesOrder.billingCountryCode
105         "BADDR5" = $salesOrder.billingPostalCode
106         "SADDR1" = $salesOrder.shippingStreet.Replace("`r", "").Replace("`n",
107 ", ")
108         "SADDR2" = $salesOrder.shippingCity
109         "SADDR3" = $salesOrder.shippingSubdivisionCode
110         "SADDR4" = $salesOrder.shippingCountryCode
111         "SADDR5" = $salesOrder.shippingPostalCode
112         "PHONE1" = $salesOrder.billingPhone
113         "PHONE2" = ''
114         "FAXNUM" = ''
115         "EMAIL" = $salesOrder.billingEmail
116         "CONT1" = ''
117         "CONT2" = ''
118         "CTYPE" = 'Residential'
119         "TERMS" = ''
120         "TAXABLE" = 'Y'
121         "LIMIT" = ''
122         "RESALENUM" = ''
123         "REP" = ''
124         "TAXITEM" = ''
125         "NOTEPAD" = ''
126         "SALUTATION" = ''
127         "COMPANYNAME" = $salesOrder.billingCompany
128         "FIRSTNAME" = $salesOrder.billingFirstName
129         "MIDINIT" = ''
130         "LASTNAME" = $salesOrder.billingLastName
131         "CUSTFLD1" = ''
132         "CUSTFLD2" = ''
133         "CUSTFLD3" = ''
134         "CUSTFLD4" = ''
135         "CUSTFLD5" = ''
136         "CUSTFLD6" = ''
137         "CUSTFLD7" = ''
138         "CUSTFLD8" = ''
139         "CUSTFLD9" = ''
140         "CUSTFLD10" = ''
141         "CUSTFLD11" = ''
142         "CUSTFLD12" = ''
143         "CUSTFLD13" = ''
144         "CUSTFLD14" = ''
145         "CUSTFLD15" = ''
146     }
147
148     # Persist fulfillment to file
149     # Create CSV with headers and append data
150     $qbIIF | Select-Object "!CUST",
151         "NAME",
152         "BADDR1",
153         "BADDR2",
154         "BADDR3",
155         "BADDR4",
156         "BADDR5",
157         "SADDR1",
158         "SADDR2",
159         "SADDR3",
160         "SADDR4",
161         "SADDR5",
162         "PHONE1",
163         "PHONE2",
164         "FAXNUM",
165         "EMAIL",
166         "CONT1",
167         "CONT2",

```

```
166         "CTYPE",
167         "TERMS",
168         "TAXABLE",
169         "LIMIT",
170         "RESALENUM",
171         "REP",
172         "TAXITEM",
173         "NOTEPAD",
174         "SALUTATION",
175         "COMPANYNAME",
176         "FIRSTNAME",
177         "MIDINIT",
178         "LASTNAME",
179         "CUSTFLD1",
180         "CUSTFLD2",
181         "CUSTFLD3",
182         "CUSTFLD4",
183         "CUSTFLD5",
184         "CUSTFLD6",
185         "CUSTFLD7",
186         "CUSTFLD8",
187         "CUSTFLD9",
188         "CUSTFLD10",
189         "CUSTFLD11",
190         "CUSTFLD12",
191         "CUSTFLD13",
192         "CUSTFLD14",
193         "CUSTFLD15" | Export-Csv -NoTypeInformation $OutFile
194     }
195 } Catch
196 {
197     Write-Output $_.Exception.Message
198 }
199
```

# QuickBooks export sales order (Powershell)

You can use the following Powershell script to export your completed sales orders information to an IIF file suitable for importing into your QuickBooks software.

```
1
2 # QuickBooksSalesOrderExport.ps1
3 #
4 # This script will export all completed sales order information
5 # to a QuickBooks IIF file.
6 #####
7
8 # Configuration
9 #####
10
11 param
12 (
13     [parameter(Mandatory = $false)][string]$APIKey = 'xxxxxxxx',
14     [parameter(Mandatory = $false)][string]$APIUrl =
15     'http://my.com/.../Revindex.Dnn.RevindexStorefront/Api/Rest/V1/ServiceHandler.ashx?portalid=0',
16     [parameter(Mandatory = $false)][string]$APIUsername = 'host',
17     [parameter(Mandatory = $false)][string]$OutFile = 'C:\SalesOrders.iif',
18     [parameter(Mandatory = $false)][DateTime]$StartDate = '2001-01-01',
19     [parameter(Mandatory = $false)][DateTime]$StopDate = [DateTime]::Now,
20     [string]$QBBankAccount = 'Bank account',
21     [string]$QBIncomeAccount = 'Income account',
22     [int]$NetworkTimeout = 30000
23 )
24
25 # Functions
26 #####
27
28
29 # Function to help post HTTP request to web service
30 Function PostWebRequest([String] $url, [String] $data, [int] $timeout)
31 {
32     $buffer = [System.Text.Encoding]::UTF8.GetBytes($data)
33     [System.Net.HttpWebRequest] $webRequest = [System.Net.WebRequest]::Create($url)
34     $webRequest.Timeout = $timeout
35     $webRequest.Method = "POST"
36     $webRequest.ContentType = "application/x-www-form-urlencoded"
37     $webRequest.ContentLength = $buffer.Length;
38
39     $requestStream = $webRequest.GetRequestStream()
40     $requestStream.Write($buffer, 0, $buffer.Length)
41     $requestStream.Flush()
42     $requestStream.Close()
43
44     [System.Net.HttpWebResponse] $webResponse = $webRequest.GetResponse()
45     $streamReader = New-Object System.IO.StreamReader($webResponse.GetResponseStream())
46     $result = $streamReader.ReadToEnd()
47     return $result
48 }
49
50
51 # Start program
52 #####
53
54 Try
55 {
56     # Create IIF file
57     # http://support.quickbooks.intuit.com/support/Articles/HOW12778
58     # http://www.qblittlesquare.com/2011/07/import-lists-into-quickbooks-with-iif/
59     # Write headers
60     ("!TRNS","DATE","ACCNT","NAME","CLASS","AMOUNT","MEMO") >> $OutFile
61     ("!SPL","DATE","ACCNT","NAME","AMOUNT","MEMO") >> $OutFile
62     ("!ENDTRNS") >> $OutFile
63
64     # We need to construct our XML request using the parameter list
65     $strRequest = "<?xml version='1.0' encoding='utf-8'?>
66         <request>
67             <version>1.0</version>
68             <credential>
69                 <username>$APIUsername</username>
70                 <apiKey>$APIKey</apiKey>
71             </credential>
72             <service>GetSalesOrdersByDateRange</service>
73             <parameters>
74                 <startDate>$StartDate</startDate>
75                 <stopDate>$StopDate</stopDate>
76             </parameters>
77         </request>"
```

```

78
79 # Execute the API call
80 $xRequest = [Xml] $strRequest
81 [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
82 if ($xResponse.response.code -ne '2000')
83 {
84     Write-Host "Error executing GetSalesOrders. Response: " + $xResponse.response.code + ' ' +
85 $xResponse.response.message
86     return
87 }
88 [System.Xml.XmlElement]$salesOrders = $xResponse.SelectSingleNode('/response/return/salesOrders')
89
90
91 $qbIIF = @()
92 foreach ($salesOrder in $salesOrders.SelectNodes('salesOrder'))
93 {
94     # Export only completed orders
95     if ($salesOrder.status -ne '4')
96     {
97         continue
98     }
99
100     ("TRNS", "" + ([DateTime]$salesOrder.orderDate).ToString("yyyy-MM-dd") + "," + "" +
101 $QBBankAccount.Replace("'", '"') + "," + "" + $salesOrder.billingFirstName.Replace("'", '"') + ' ' +
102 $salesOrder.billingLastName.Replace("'", '"') + "," + "" + $salesOrder.totalAmount + "," + "SalesOrder", "") >>
103 $OutFile
104
105     ("SPL", "" + ([DateTime]$salesOrder.orderDate).ToString("yyyy-MM-dd") + "," + "" +
106 $QBIncomeAccount.Replace("'", '"') + "," + "" + $salesOrder.billingFirstName.Replace("'", '"') + ' ' +
107 $salesOrder.billingLastName.Replace("'", '"') + "," + "" + (-([Decimal]$salesOrder.totalAmount)) + "," + "" >>
108 $OutFile
109
110     ("ENDTRNS") >> $OutFile
111 }
112 }
113
114 Catch
115 {
116     Write-Output $_.Exception.Message
117 }
118
119

```

# Shipwire export order (Powershell)

The following script will export orders to Shipwire for fulfilling.

```
1
2 # ShipwireFulfillment.ps1
3 #
4 # This script will export all pending orders that needs to be fulfilled
5 # by Shipwire.
6 # It will mark the SalesOrderDetail object as shipped and the entire
7 # SalesOrder as completed when every order detail has been fulfilled.
8 #####
9
10
11
12
13 # Configuration
14 #####
15
16
17 $APIKey = '00000000-0000-0000-0000-000000000000'
18 $APIUrl = 'http://domain.com/DesktopModules/Reindex.Dnn.ReindexStorefront/Api/Rest/V1/ServiceHandler.ashx?
portalid=0'
19 $APIUsername = 'host'
20
21
22 # Number of days to look back at orders
23 $BackOrderDays = -7
24
25
26 $LogFileName = ('Log.' + [DateTime]::Now.ToString('yyyyMMdd') + '.txt')
27
28
29 $NetworkTimeout = 30000
30
31
32 # The email(s) to notify on success/error. Separated multiple emails by semicolon.
33 $NotificationRecipient = 'support@localhost.com'
34
35
36 $NotificationSender = 'support@localhost.com'
37
38
39 # The platform or software which is referring this order.
40 $ShipwireReferer = ''
41
42
43 $ShipwirePassword = 'nokuwi'
44
45
46 # Enter the word 'Test' if you wish to run a test but not send orders for fulfillment. Leave blank in production.
47 $ShipwireTest = 'Test'
48
49
50 $ShipwireUsername = 'testuser'
51
52
53 $SMTPPassword = 'xxxxxx'
54 $SMTPServer = 'mail.localhost.com'
55 $SMTPUser = 'mailer'
56
57
58 # The folder to store files, logs, etc. defaults to the current execution path
59 $WorkingFolder = ((Split-Path $MyInvocation.MyCommand.Path) + '\')
60
61
62
63
64 # Functions
65 #####
66
67
68
69
70 # Function to help post HTTP request to web service
71 Function PostWebRequest([String] $url, [String] $data, [int] $timeout)
72 {
73     $buffer = [System.Text.Encoding]::UTF8.GetBytes($data)
74     [System.Net.HttpWebRequest] $webRequest = [System.Net.WebRequest]::Create($url)
75     $webRequest.Timeout = $timeout
76     $webRequest.Method = "POST"
77     $webRequest.ContentType = "application/x-www-form-urlencoded"
78     $webRequest.ContentLength = $buffer.Length;
79
80
```



```

81     $requestStream = $webRequest.GetRequestStream()
82     $requestStream.Write($buffer, 0, $buffer.Length)
83     $requestStream.Flush()
84     $requestStream.Close()
85
86
87     [System.Net.HttpWebResponse] $webResponse = $webRequest.GetResponse()
88     $streamReader = New-Object System.IO.StreamReader($webResponse.GetResponseStream())
89     $result = $streamReader.ReadToEnd()
90     return $result
91 }
92
93
94
95
96 # Function to send email
97 Function SendEmail([String]$smtpServer, [String] $smtpUser, [String] $smtpPassword, [String] $sender, [String]
98 $recipient, [String] $subject, [String] $body, [String] $attachment)
99 {
100     $msg = New-Object System.Net.Mail.MailMessage
101     $msg.From = $sender
102     $msg.ReplyTo = $sender
103
104     foreach ($r in $recipient.Split(';'))
105     {
106         if ($r)
107         {
108             $msg.To.Add($r)
109         }
110     }
111     $msg.subject = $subject
112     $msg.body = $body
113
114     if ($attachment -and [System.IO.File]::Exists($attachment))
115     {
116         $att = New-Object System.Net.Mail.Attachment($attachment)
117         $msg.Attachments.Add($att)
118     }
119
120     $smtp = New-Object System.Net.Mail.SmtpClient($smtpServer)
121     $smtp.Credentials = New-Object System.Net.NetworkCredential($smtpUser, $smtpPassword);
122     $smtp.Send($msg)
123 }
124
125
126
127
128 # Start program
129 #####
130
131
132
133
134 Try
135 {
136     $xShipRequest = [Xml] "<?xml version='1.0' encoding='utf-8'?>
137 <OrderList>
138 <Username>$ShipwireUsername</Username>
139 <Password>$ShipwirePassword</Password>
140 <Server>$ShipwireTest</Server>
141 <Referer>$ShipwireReferer</Referer>
142 </OrderList>"
143
144
145     # Get sales orders needing to be fulfilled
146     $StartDate = [DateTime]::Now.AddDays($BackOrderDays).ToString("s")
147     $StopDate = [DateTime]::Now.ToString("s")
148
149
150     $xRequest = [Xml] "<?xml version='1.0' encoding='utf-8'?>
151 <request>
152 <version>1.0</version>
153 <credential>
154 <username>$APIUsername</username>
155 <apiKey>$APIKey</apiKey>
156 </credential>
157 <service>GetSalesOrdersByDateRange</service>
158 <parameters>
159 <startDate>$StartDate</startDate>
160 <stopDate>$StopDate</stopDate>
161 </parameters>
162 </request>"
163
164
165
166
167     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
168     if ($xResponse.response.code -ne '2000')
169     {
170         Throw New-Object System.InvalidOperationException("Error executing GetSalesOrdersByDateRange. Response: "
171 + $xResponse.response.code + ' ' + $xResponse.response.message)
172     }
173     [System.Xml.XmlElement]$salesOrders = $xResponse.SelectSingleNode('/response/return/salesOrders')

```

```

174
175     foreach ($salesOrder in $salesOrders.SelectNodes('salesOrder'))
176     {
177         # Look for pending order status
178         if ($salesOrder.status -eq '1')
179         {
180             # Create Shipwire fulfillment request
181             $xShipRequestOrder = $xShipRequest.CreateElement('Order')
182             $xShipRequestOrder.SetAttribute('id', $salesOrder.salesOrderID)
183             $xShipRequest.OrderList.AppendChild($xShipRequestOrder)
184
185             $xShipRequestWarehouse = $xShipRequest.CreateElement('Warehouse')
186             $xShipRequestWarehouse.InnerText = '00'
187             $xShipRequestOrder.AppendChild($xShipRequestWarehouse)
188
189             $xShipRequestOrderAddressInfo = $xShipRequest.CreateElement('AddressInfo')
190             $xShipRequestOrderAddressInfo.SetAttribute('type', 'ship')
191             $xShipRequestOrder.AppendChild($xShipRequestOrderAddressInfo)
192
193             $xShipRequestOrderAddressInfoName = $xShipRequest.CreateElement('Name')
194             $xShipRequestOrderAddressInfoNameFull = $xShipRequest.CreateElement('Full')
195             $xShipRequestOrderAddressInfoNameFull.InnerText = $salesOrder.shippingFirstName + ' ' +
196                 $salesOrder.shippingLastName
197             $xShipRequestOrderAddressInfoName.AppendChild($xShipRequestOrderAddressInfoNameFull)
198             $xShipRequestOrder.AddressInfo.AppendChild($xShipRequestOrderAddressInfoName)
199
200             $xShipRequestOrderAddressInfoAddress1 = $xShipRequest.CreateElement('Address1')
201             $xShipRequestOrderAddressInfoAddress1.InnerText = $salesOrder.shippingStreet.Replace("`r", '').Split("`n")[0]
202             $xShipRequestOrderAddressInfo.AppendChild($xShipRequestOrderAddressInfoAddress1)
203
204             $xShipRequestOrderAddressInfoAddress2 = $xShipRequest.CreateElement('Address2')
205             $xShipRequestOrderAddressInfoAddress2.InnerText = $salesOrder.shippingStreet.Replace("`r", '').Split("`n")[1]
206             $xShipRequestOrderAddressInfo.AppendChild($xShipRequestOrderAddressInfoAddress2)
207
208             $xShipRequestOrderAddressInfoCity = $xShipRequest.CreateElement('City')
209             $xShipRequestOrderAddressInfoCity.InnerText = $salesOrder.shippingCity
210             $xShipRequestOrderAddressInfo.AppendChild($xShipRequestOrderAddressInfoCity)
211
212             $xShipRequestOrderAddressInfoState = $xShipRequest.CreateElement('State')
213             if ($salesOrder.shippingCountryCode -eq 'US' -or $salesOrder.shippingCountryCode -eq 'CA')
214             {
215                 $xShipRequestOrderAddressInfoState.InnerText = $salesOrder.shippingSubdivisionCode
216             }
217             else
218             {
219                 $xShipRequestOrderAddressInfoState.InnerText = $salesOrder.shippingSubdivisionName
220             }
221             $xShipRequestOrderAddressInfo.AppendChild($xShipRequestOrderAddressInfoState)
222
223             $xShipRequestOrderAddressInfoCountry = $xShipRequest.CreateElement('Country')
224             $xShipRequestOrderAddressInfoCountry.InnerText = $salesOrder.shippingCountryCode
225             $xShipRequestOrderAddressInfo.AppendChild($xShipRequestOrderAddressInfoCountry)
226
227             $xShipRequestOrderAddressInfoZip = $xShipRequest.CreateElement('Zip')
228             $xShipRequestOrderAddressInfoZip.InnerText = $salesOrder.shippingPostalCode
229             $xShipRequestOrderAddressInfo.AppendChild($xShipRequestOrderAddressInfoZip)
230
231             $xShipRequestOrderAddressInfoPhone = $xShipRequest.CreateElement('Phone')
232             $xShipRequestOrderAddressInfoPhone.InnerText = $salesOrder.shippingPhone
233             $xShipRequestOrderAddressInfo.AppendChild($xShipRequestOrderAddressInfoPhone)
234
235             $xShipRequestOrderAddressInfoEmail = $xShipRequest.CreateElement('Email')
236             $xShipRequestOrderAddressInfoEmail.InnerText = $salesOrder.shippingEmail
237             $xShipRequestOrderAddressInfo.AppendChild($xShipRequestOrderAddressInfoEmail)
238
239             # Query shipping method
240             $xRequest = [Xml] ("<?xml version='1.0' encoding='utf-8'?>
241                 <request>
242                     <version>1.0</version>
243                     <credential>
244                         <username>$APIUsername</username>
245                         <apiKey>$APIKey</apiKey>
246                     </credential>
247                     <service>GetActiveShippingMethod</service>
248                     <parameters>
249                         <shippingMethodID>" + $salesOrder.shippingMethodID + "</shippingMethodID>
250                     </parameters>
251                 </request>")
252
253
254
255             [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
256             if ($xResponse.response.code -ne '2000')
257             {
258                 Throw New-Object System.InvalidOperationException("Error executing GetActiveShippingMethod.
Response: " + $xResponse.response.code + ' ' + $xResponse.response.message)
259             }
260             $shippingMethod = $xResponse.response.return.shippingMethod
261
262             if (!$shippingMethod.universalServiceName.StartsWith("SHIPWIRE:"))
263             {
264                 continue
265             }

```

```

266
267 $xShipRequestOrderCarrier = $xShipRequest.CreateElement('Carrier')
268 $xShipRequestOrderCarrier.InnerText = $shippingMethod.universalServiceName.Replace("SHIPWIRE:", "")
269 $xShipRequestOrder.AppendChild($xShipRequestOrderCarrier)
270
271     # Query sales order details
272     $xRequest = [Xml] ("<?xml version='1.0' encoding='utf-8'?>
273         <request>
274             <version>1.0</version>
275             <credential>
276                 <username>$APIUsername</username>
277                 <apiKey>$APIKey</apiKey>
278             </credential>
279             <service>GetSalesOrderDetails</service>
280             <parameters>
281                 <salesOrderID>" + $salesOrder.salesOrderID + "</salesOrderID>
282                 <stopDate>$StopDate</stopDate>
283             </parameters>
284         </request>")
285
286
287
288
289     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
290     if ($xResponse.response.code -ne '2000')
291     {
292         Throw New-Object System.InvalidOperationException("Error executing GetSalesOrderDetails. Response:
293 " + $xResponse.response.code + ' ' + $xResponse.response.message)
294     }
295     [System.Xml.XmlElement]$salesOrderDetails =
296     $xResponse.SelectSingleNode('/response/return/salesOrderDetails')
297
298     $itemNum = 0
299     foreach ($salesOrderDetail in $salesOrderDetails.SelectNodes('salesOrderDetail'))
300     {
301         # Make sure we haven't already fulfilled this sales order detail otherwise we can skip it
302         if ($salesOrderDetail.shippingStatus -ne '2')
303         {
304             continue
305         }
306
307         # Query product info for matching distributor
308         $xRequest = [Xml] ("<?xml version='1.0' encoding='utf-8'?>
309             <request>
310                 <version>1.0</version>
311                 <credential>
312                     <username>$APIUsername</username>
313                     <apiKey>$APIKey</apiKey>
314                 </credential>
315                 <service>GetActiveProductVariant</service>
316                 <parameters>
317                     <productVariantID>" + $salesOrderDetail.productVariantID + "
318                 </parameters>
319             </request>")
320
321
322
323     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
324     if ($xResponse.response.code -ne '2000')
325     {
326         Throw New-Object System.InvalidOperationException("Error executing GetActiveProductVariant.
327 Response: " + $xResponse.response.code + ' ' + $xResponse.response.message)
328     }
329     $productVariant = $xResponse.response.return.productVariant
330
331     # Append Shipwire item to fulfillment request
332     $xShipRequestOrderItem = $xShipRequest.CreateElement('Item')
333     $xShipRequestOrderItem.SetAttribute('num', $itemNum)
334     $xShipRequestOrder.AppendChild($xShipRequestOrderItem)
335
336     $xShipRequestOrderItemCode = $xShipRequest.CreateElement('Code')
337     $xShipRequestOrderItemCode.InnerText = $salesOrderDetail.sku
338     $xShipRequestOrderItem.AppendChild($xShipRequestOrderItemCode)
339
340     $xShipRequestOrderItemQuantity = $xShipRequest.CreateElement('Quantity')
341     $xShipRequestOrderItemQuantity.InnerText = $salesOrderDetail.quantity
342     $xShipRequestOrderItem.AppendChild($xShipRequestOrderItemQuantity)
343
344     $itemNum = $itemNum + 1
345
346     # Mark SalesOrderDetail as shipped
347     $salesOrderDetail.shippingStatus = '3'
348
349     # Update order detail shipping status to shipped (3).
350     $xRequest = [Xml] ("<?xml version='1.0' encoding='utf-8'?>
351         <request>
352             <version>1.0</version>
353             <credential>
354                 <username>$APIUsername</username>
355                 <apiKey>$APIKey</apiKey>
356             </credential>
357             <service>UpdateSalesOrderDetail</service>

```

```

356         <parameters>
357         <salesOrderDetailID>" + $salesOrderDetail.salesOrderDetailID + "
</salesOrderDetailID>
358         <shippingStatus>3</shippingStatus>
359     </parameters>
360 </request>")
361
362     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
363     if ($xResponse.response.code -ne '2000')
364     {
365         Throw New-Object System.InvalidOperationException("Error executing UpdateSalesOrderDetail.
Response: " + $xResponse.response.code + ' ' + $xResponse.response.message)
366     }
367 }
368
369 # Update order status to Completed and Shipped if all sales order details have been accounted for.
370 $orderIsComplete = $true
371 foreach ($salesOrderDetail in $salesOrderDetails.SelectNodes('salesOrderDetail'))
372 {
373     if ($salesOrderDetail.shippingStatus -eq '2' -or $salesOrderDetail.shippingStatus -eq '4')
374     {
375         $orderIsComplete = $false
376         break
377     }
378 }
379
380 if ($orderIsComplete)
381 {
382     # Update order status to shipped (3) and order completed (4).
383     $xRequest = [Xml] ("<?xml version='1.0' encoding='utf-8'?>
384     <request>
385     <version>1.0</version>
386     <credential>
387     <username>$APIUsername</username>
388     <apiKey>$APIKey</apiKey>
389     </credential>
390     <service>UpdateSalesOrder</service>
391     <parameters>
392     <salesOrderID>" + $salesOrder.salesOrderID + "</salesOrderID>
393     <salesPaymentStatus>" + $salesOrder.salesPaymentStatus + "</salesPaymentStatus>
394     <shippingStatus>3</shippingStatus>
395     <status>4</status>
396     </parameters>
397     </request>")
398
399     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
400     if ($xResponse.response.code -ne '2000')
401     {
402         Throw New-Object System.InvalidOperationException("Error executing UpdateSalesOrder. Response:
+ $xResponse.response.code + ' ' + $xResponse.response.message)
403     }
404 }
405 }
406 }
407
408 # Submit to Shipwire fulfillment
409 $shipwireAPIUrl = 'https://api.shipwire.com/exec/FulfillmentServices.php'
410 if ($ShipwireTest -ne '')
411 {
412     $shipwireAPIUrl = 'https://api.beta.shipwire.com/exec/FulfillmentServices.php'
413 }
414 [Xml]$xResponse = PostWebRequest $shipwireAPIUrl $xShipRequest.InnerXml $NetworkTimeout
415 [System.Xml.XmlElement]$xSubmitOrderResponse = $xResponse.SelectSingleNode('/SubmitOrderResponse')
416 if ($xSubmitOrderResponse.Status -eq '0')
417 {
418     # Log completion
419     ([DateTime]::Now.ToString("s") + "`tSuccess`t" + $xShipRequest.InnerXml) >> ($WorkingFolder + $LogFileName)
420 }
421 # Notify progress
422 SendEmail $SMTPServer $SMTPUser $SMTPPassword $NotificationSender $NotificationRecipient 'Fulfillment
completed successfully' 'Fulfillment completed successfully' ($WorkingFolder + $LogFileName)
423 }
424 else
425 {
426     # Log completion
427     ([DateTime]::Now.ToString("s") + "`t" + $xSubmitOrderResponse.ErrorMessage.InnerText + "`t" +
428     $xShipRequest.InnerXml) >> ($WorkingFolder + $LogFileName)
429 }
430 # Notify progress
431 SendEmail $SMTPServer $SMTPUser $SMTPPassword $NotificationSender $NotificationRecipient 'Fulfillment failed'
'Fulfillment failed' ($WorkingFolder + $LogFileName)
432 }
433 }
434 Catch
435 {
436     # Log errors
437     ([DateTime]::Now.ToString("s") + "`t" + $_.Exception.Message + "`t") >> ($WorkingFolder + $LogFileName)
438 }
439 # Notify error
440 SendEmail $SMTPServer $SMTPUser $SMTPPassword $NotificationSender $NotificationRecipient 'Fulfillment failed'
'Fulfillment failed' ($WorkingFolder + $LogFileName)
441 }
442

```



## Retrieve product (C#)

The following code shows how to perform a simple POST request using C# to retrieve a Product object:

```
1
2 using System;
3 using System.IO;
4 using System.Net;
5 using System.Text;
6 using System.Xml;
7 using System.Xml.Linq;
8 ...
9 ...
10 ...
11
12
13 HttpWebRequest req = (HttpWebRequest)WebRequest.Create("http://a.com/.../Api/Rest/V1/ServiceHandler.ashx");
14
15 req.Timeout = 30000;
16 req.Method = "POST";
17 req.ContentType = "application/x-www-form-urlencoded";
18
19 // Initialize post string
20 string postString = @"<?xml version=""1.0"" encoding=""utf-8""?>
21 <request>
22   <version>1.0</version>
23   <credential>
24     <username>Administrator</username>
25     <apiKey>00000000-0000-0000-0000-000000000000</apiKey>
26   </credential>
27   <service>GetActiveProduct</service>
28   <parameters>
29     <productID>1</productID>
30   </parameters>
31 </request>";
32
33 req.ContentLength = Encoding.UTF8.GetByteCount(postString);
34 using (Stream sw = req.GetRequestStream())
35 {
36     byte[] bytes = Encoding.UTF8.GetBytes(postString);
37     sw.Write(bytes, 0, bytes.Length);
38 }
39
40 HttpWebResponse resp = (HttpWebResponse)req.GetResponse();
41
42 // Verify HTTP for 200 OK status code
43 if (resp.StatusCode == HttpStatusCode.OK)
44 {
45     using (StreamReader sr = new StreamReader(resp.GetResponseStream(), Encoding.UTF8))
46     {
47         string responseData = sr.ReadToEnd();
48
49         // Parse the XML return data
50         XDocument doc = XDocument.Parse(responseData);
51
52         // Verify XML for 2000 Success
53         if (((XElement)doc.FirstNode).Element("code").Value == "2000")
54         {
55             // Read the rest of the XML...
56         }
57     }
58 }
59
```

# CSV bulk import

This feature is not supported by Revindex. It's only provided as an example to demonstrate what you can do with the REST API in combination with other tools.

Revindex Storefront spots a powerful REST API for selecting, inserting, updating or deleting almost any data. The REST API has a more extensive support for manipulating bulk data than the regular CSV import on the screen. Please see Import and Export (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/import-and-export/rvdwkpvm/section>) for more information.

However, because the REST API operates on XML or JSON and is intended for programmers, it's not easy to manipulate the data by non-technical users. An easier way is to allow users to manipulate the data from a CSV (Excel spreadsheet) and make use of other tools to transform the CSV into XML for the REST API.

You can use a Powershell script to take a CSV file and convert it to XML suitable for the REST API to work. The command line can be run from any computer or scheduled to import the CSV file. Since internally it uses the REST API, it could call any Insert, Update or Delete operations that the REST API can perform. Because internally it calls the REST API, it benefits from validation check as well as the ability to operate on almost every field.

```
1 # CsvImport.ps1 v1.0.0
2 #
3 # This script will bulk execute any API service you specify (insert, update and delete operations)
4 # using parameters and repeating for every record in your CSV file.
5 # The CSV file must include first line headers matching exactly the parameter list for the requested service.
6 # Remember to take a full backup of your system before performing any API operation.
7 #
8 # Example 1. To bulk execute the "InsertProductAttribute" API service, you need to provide a parameter CSV file
9 # like this (ideally with quotes):
10 #
11 # "booleanValue","decimalValue","integerValue","productAttributeDefinitionID","productID","productVariantID","selectionValue","stringValue"
12 # "TRUE","[NULL]","[NULL]","12","7","[NULL]","[NULL]","[NULL]"
13 # "[NULL]","[NULL]","[NULL]","15","[NULL]","8","[NULL]","[NULL]"
14 # Then run the command line below to execute the API service for each record in your CSV file:
15 #
16 # > &"C:\CsvImport.ps1"
17 # -APIKey 'xxxx' -APIService 'InsertProductAttribute' -APIUrl 'http://url/...'
18 # -APIUsername 'admin' -ParamsFile 'C:\Params.csv'
19 #
20 #####
21 #
22 # Configuration
23 #####
24 #
25 param
26 (
27     [parameter(Mandatory = $true)][string]$APIKey,
28     [parameter(Mandatory = $true)][string]$APIService,
29     [parameter(Mandatory = $true)][string]$APIUrl,
30     [parameter(Mandatory = $true)][string]$APIUsername,
31     [bool]$ExitOnError = $true,
32     [parameter(Mandatory = $true, ValueFromPipeline = $true, ValueFromPipelineByPropertyName = $true)]
33     [string]$ParamsFile,
34     [int]$NetworkTimeout = 30000,
35     [string]$NullString = "[NULL]",
36     [bool]$Silent = $false
37 )
38 # Functions
39 #####
40 #
41 # Function to help post HTTP request to web service
42 Function PostWebRequest([String] $url, [String] $data, [int] $timeout)
43 {
44     $buffer = [System.Text.Encoding]::UTF8.GetBytes($data)
```

```

46 [System.Net.HttpWebRequest] $webRequest = [System.Net.WebRequest]::Create($url)
47 $webRequest.Timeout = $timeout
48 $webRequest.Method = "POST"
49 $webRequest.ContentType = "application/x-www-form-urlencoded"
50 $webRequest.ContentLength = $buffer.Length;
51
52
53 $requestStream = $webRequest.GetRequestStream()
54 $requestStream.Write($buffer, 0, $buffer.Length)
55 $requestStream.Flush()
56 $requestStream.Close()
57
58
59 [System.Net.HttpWebResponse] $webResponse = $webRequest.GetResponse()
60 $streamReader = New-Object System.IO.StreamReader($webResponse.GetResponseStream())
61 $result = $streamReader.ReadToEnd()
62 return $result
63 }
64
65
66 # Function to send email
67 Function SendEmail([String]$smtpServer, [String]$smtpUser, [String]$smtpPassword, [String]$sender, [String]
$recipient, [String]$subject, [String]$body, [String]$attachment)
68 {
69     $msg = New-Object System.Net.Mail.MailMessage
70     $msg.From = $sender
71     $msg.ReplyTo = $sender
72
73     foreach ($r in $recipient.Split(';'))
74     {
75         if ($r)
76         {
77             $msg.To.Add($r)
78         }
79     }
80     $msg.subject = $subject
81     $msg.body = $body
82
83     if ($attachment -and [System.IO.File]::Exists($attachment))
84     {
85         $att = New-Object System.Net.Mail.Attachment($attachment)
86         $msg.Attachments.Add($att)
87     }
88
89
90     $smtp = New-Object System.Net.Mail.SmtpClient($smtpServer)
91     $smtp.Credentials = New-Object System.Net.NetworkCredential($smtpUser, $smtpPassword);
92     $smtp.Send($msg)
93 }
94
95
96 # Start program
97 #####
98
99 Try
100 {
101     # Load CSV parameters from file into memory
102     if (![System.IO.File]::Exists($ParamsFile))
103     {
104         return
105     }
106
107     $ImportData = @(Import-Csv ($ParamsFile))
108
109     # Get list of parameter names from our CSV header line
110     $ImportHeaders = $ImportData | Get-Member -MemberType NoteProperty | foreach {$_.name}
111
112     # Execute API service for each parameter record in CSV file
113     $line = 0
114     $successCount = 0
115     foreach ($Row in $ImportData)
116     {
117         Try
118         {
119             $line++
120
121             # We need to construct our XML request using the parameter list
122             $strRequest = "<?xml version='1.0' encoding='utf-8'?>
123                 <request>
124                     <version>1.0</version>
125                     <credential>
126                         <username>$APIUsername</username>
127                         <apiKey>$APIKey</apiKey>
128                     </credential>
129                     <service>$APIService</service>
130                     <parameters>
131
132
133             foreach ($Param in $ImportHeaders)
134             {
135                 $v = $Row | Select -ExpandProperty $Param
136                 if ($v -ne $NullString)
137                 {
138                     if ($v.StartsWith('<locale ') -or $v.StartsWith('<code ') -or $v.StartsWith('<rule '))

```



```

139 {
140     $strRequest += "                                <$Param>" + $v + "</$Param>`r`n"
141 }
142 else
143 {
144     $strRequest += "                                <$Param>" + [System.Web.HttpUtility]::HtmlEncode($v) + "
</$Param>`r`n"
145 }
146     }
147 }
148
149     $strRequest += "                                </parameters>
150     </request>"
151
152     # Execute the API call
153     $xRequest = [Xml] $strRequest
154     [Xml]$xResponse = PostWebRequest $APIUrl $xRequest.InnerXml $NetworkTimeout
155     if ($xResponse.response.code -ne '2000')
156     {
157         if (!$Silent)
158         {
159             Write-Host "Error executing $APIService while processing record number $line. Response: " +
160             $xResponse.response.code + ' ' + $xResponse.response.message
161         }
162         if ($ExitOnError)
163         {
164             return
165         }
166     }
167     else
168     {
169         $successCount++
170     }
171
172     if (!$Silent)
173     {
174         Write-Host "$successCount / $line records successfully executed."
175     }
176 }
177 Catch
178 {
179     if (!$Silent)
180     {
181         Write-Host "Error executing $APIService while processing record number $line. " +
182         $_.Exception.Message
183     }
184     if ($ExitOnError)
185     {
186         return
187     }
188 }
189 }
190 }
191 Catch
192 {
193     if (!$Silent)
194     {
195         Write-Host $_.Exception.Message
196     }
197 }
198

```

For example, it can call the "InsertProductAttribute" service. Please see ProductAttribute (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/rest-api-productattribute/rvdwkpvm/section>) for more information. All you need to do is make sure your CSV file header follows the request parameter list of that service call (double quotes around CSV fields are optional but highly recommended).

```

1 |
2 | "booleanValue","decimalValue","integerValue","productAttributeDefinitionID","productID","productVariantID",...
3 | "TRUE","[NULL]","[NULL]","12","7","[NULL]",...
4 | "[NULL]","[NULL]","[NULL]","15","[NULL]","8",...
5 |

```

You just need to enable the API under **Configuration > API** menu after logged in as Admin or Host. Then run the command line with the correct parameters specifying the operation you want to do and the location of your CSV file:

```
2 | &"C:\CsvImport.ps1" -APIKey 'xxxx' -APIService 'InsertProductAttribute' -APIUrl 'http://url/...' -APIUsername 'admin' -  
  | ParamsFile 'C:\Params.csv'  
3
```

Remember to take a full backup before doing any major import.

# XML and XSL

Revindex Storefront uses XML and XSLT rules to carry data and to transform it into usable business logic. Both technology are well defined and governed by the W3C standard.

There are numerous tutorials and books that teaches about XML and XSLT. Below are a few online tutorials that could be useful.

## XML Tutorials

- <https://www.w3schools.com/xml/> (<https://www.w3schools.com/xml/>)
- <https://www.xmlfiles.com/xml/> (<https://www.xmlfiles.com/xml/>)
- <https://www.quackit.com/xml/tutorial/> (<https://www.quackit.com/xml/tutorial/>)

## XSLT Tutorials

- (<http://www.w3schools.com/xsl/>)[https://www.w3schools.com/xml/xsl\\_intro.asp](https://www.w3schools.com/xml/xsl_intro.asp)  
([https://www.w3schools.com/xml/xsl\\_intro.asp](https://www.w3schools.com/xml/xsl_intro.asp))
- <https://www.tutorialspoint.com/xslt> (<https://www.tutorialspoint.com/xslt>)

# XSL Transform

Every business has its own set of unique business rules, which gives its competitive edge and allows it to comply with regulations. For example, you may have a business rule that gives a \$10 discount to repeat customers who purchased over \$50 worth of products or your ground shipping method in the United States should never ship to Hawaii.

Revindex Storefront employs powerful XSL 2.0 transform to apply dynamic business rules and calculate the resulting values. XSL (Extensible Stylesheet Language) is the industry standard XML transform language and can be found in different DNN core modules such as the Reports, XML, News Feed module and throughout the Internet. Although not necessary to operate the Revindex Storefront, understanding the basics of XSL will open endless possibility to describe your most complicated business rules needed to run your business.

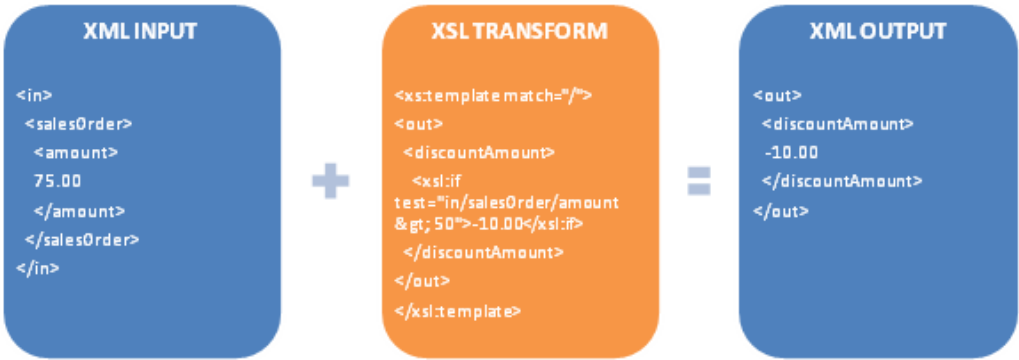
To learn XSL, you must first understand XML (Extensible Markup Language). XML is very similar to HTML, the language used to describe Web pages. XML is made up of elements contained in open and close right-angle brackets. e.g. <element attribute="Some value">My value</element>

Computer is able to interpret the tags into useful value. XML language has a few simple rules:

1. **XML is case-sensitive.**
2. **All elements must be properly closed.**  
e.g. <myTag>1.00</myTag> or use the short form <myTag /> if no value is enclosed.
3. **All elements must be properly nested.**  
e.g. <a><b>1.00</b></a> is correct. <a><b>1.00</a></b> is wrong.
4. **Comments use the special open and close tags and are ignored by the computer.**  
e.g. <!-- this is some comment -->
5. **Reserved characters must be encoded when used as value.**  
e.g. <myTag>John &amp; Jane</myTag>

Reserved Characters	Encoded Characters
<	&lt;
>	&gt;
&	&amp;
'	&apos;
"	&quot;

The structure of XSL looks like XML. It uses open and close right-angle brackets and follows the same syntax as XML. In addition, it has built-in special purpose elements and functions that can manipulate XML data. The following example shows a sample XML input with a \$75 sales order. The XSL business rule has an “if” condition that prints the \$10 discount if the amount is greater than \$50.



To write XSL, start with how you expect the XML output to be. In the previous example, you would write the <out> and <discountAmount> open and close tags as you see them. Add to the header and footer the standard <xsl:transform> and <xsl:template> open and close tags respectively. These tags tell the computer that you're writing XSL and match up with start of the XML input data. Finally, add the <xsl:if> condition and check for the \$50 amount. Here, the "in/salesOrder/amount" is used to navigate and select the XML input data.

The common XSL special purpose elements for transforming XML data are listed below.

XSL Elements	Description
<xsl:variable name="varname" select="expression" />	Hold the value of an expression in a variable that can be referenced later using \$varname.
<xsl:value-of select="expression" />	Used to select and print a value from XML input.
<xsl:if test="expression">value</xsl:if>	Only print the value if condition succeeds.
<xsl:choose>       <xsl:when test="expression">value</xsl:when>       <xsl:when test="expression">value</xsl:when>       <xsl:when test="expression">value</xsl:when>       <xsl:otherwise>value</xsl:otherwise>     </xsl:choose>	Print first value if condition succeeds, otherwise print next value. Unlike the xsl:if instruction, the xsl:choose instruction allows for one or multiple xsl:when test conditions. The result of the first test condition that succeeds will returned. If no test condition succeeds, the last optional xsl:otherwise result is returned.
<xsl:for-each select="expression">value</xsl:for-each>	Loop each occurrence of the expression and print the value.

The XSL expressions can contain these operators.

XSL Operators	Description	Example	Result
+	Addition.	1 + 2	3
-	Subtraction.	3 - 1	2
*	Multiplication.	2 * 6	12
div	Division.	6 div 2	3
=	Test for equality.	amount = 1.00	True if amount is 1.00 False if amount is 1.10
!=	Test for not equal.	amount != 1.10	True if amount is 1.00 False if amount is 1.10
<	Less than.	amount < 1.10	True if amount is 1.00 False if amount is 1.10
<=	Less than or equal.	amount <= 1.00	True if amount is 1.00 False if amount is 1.10
>	Greater than.	amount > 1.00	True if amount is 1.10 False if amount is 1.00
>=	Greater than or equal.	amount >= 1.00	True if amount is 1.00 False if amount is 0.90
or	Conditional or.	amount = 1.00 or amount = 1.10	True if amount is 1.00 False if amount is 1.20
and	Conditional and.	amount > 1.00 and amount < 1.10	True if amount is 1.05 False if amount is 0.90

XSL also provides hundreds of functions to manipulate data, such as rounding a decimal number, etc. The common functions are listed below. To see a full list of functions, please see [https://www.w3schools.com/xml/xsl\\_functions.asp](https://www.w3schools.com/xml/xsl_functions.asp) ([https://www.w3schools.com/xml/xsl\\_functions.asp](https://www.w3schools.com/xml/xsl_functions.asp))

XSL Functions	Description
ceiling(num)	Returns the smallest integer number that is greater than the number argument.
floor(num)	Returns the largest integer number that is smaller than the number argument.
round(num)	Round the number argument to the nearest integer number.

concat(string, string, ..., sep)	Returns a string by concatenating with the separator argument.
substring(string, start, length)	Returns the sub-string from the start position to the specified length. Index of the first character is 1. If length is omitted it returns the substring from the start position to the end.
string- length(string)	Returns the length of the string argument.
upper- case(string)	Returns the string in all upper case.
lower- case(string)	Returns the string in all lower case.
contains(string1, string1)	Returns true if string1 contains string2, otherwise false.
starts- with(string1, string2)	Returns true if string1 starts with string2, otherwise false.
ends- with(string1, string2)	Returns true if string1 ends with string2, otherwise false.
matches(string, pattern)	Returns true if the string argument matches the pattern, otherwise false.
replace(string, pattern, replace)	Returns a string that is created by replacing the given pattern with the replace argument.
not(arg)	Returns true if the boolean value is false, and false if the boolean value is true.
count((item, item, ...))	Returns the count of nodes.
avg((arg, arg,...))	Returns the average of the argument values.
max((arg, arg,...))	Returns the argument that is greater than the others.
min((arg, arg, ...))	Returns the argument that is less than the others.
sum(arg, arg, ...)	Returns the sum of the numeric value of each node in the specified node-set.

To learn more about XML, please see <http://www.w3schools.com/xml/default.asp>  
(<http://www.w3schools.com/xml/default.asp>) and to learn more about XSL, please see <http://www.w3schools.com/xsl/>  
(<http://www.w3schools.com/xsl/>). You'll also find more help and example of XSL in the Revindex Forum and Support pages.



# XSL Tokens

Rich text editors are useful for designing static HTML content, however, it lacks the ability to inject data dynamically. Revindex Storefront supports XSL tokens to replace values and provide powerful logic manipulation in specially indicated rich text editors. XSL tokens makes it possible to inject a single line of dynamic data like name, or an entire table of data such as order details.

Simply, XSL tokens are actual XSL statements wrapped in specially enclosed single braces {xsl:value-of /} instead of the usual right angles <xsl:value-of />. For example, the familiar XSL statement:

**<xsl:value-of select="in/salesOrder/billingFirstName" />**

can be tokenized and safe for use in rich text editors by replacing the right angles with double brackets:

**{xsl:value-of select="in/salesOrder/billingFirstName" /}**

This allows the rich text editor such as the email template editor or the report visualizer editor to render an editable HTML representation of your design while allowing XSL syntax to seemingly and safely co-exist with your HTML code.

Please note in previous Storefront 10 and older uses a double brackets [[xsl:value-of /]] instead of single braces.

## Debugging XSL

You can debug XSL transforms by enabling "Debug" mode. Once enabled, the Storefront will start recording the XML input in the DNN's Event Viewer. Please see Log Level (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/log-level/rvdwkpvm/section>) for more information on how to enable debug mode.

# String Tokens

Tokens are simple text replacement allowing you to dynamically display additional content in many text or HTML areas. For example, you can use the token "[User:DisplayName]" to personalize the product page by displaying the current user's name or simply showing the date and time using the "[Date:Now]" token. You can even format the returned value by piping the value to a string formatter like "[User:Displayname|Hello {0}]" or "[Date:Now|dd.MM.yyyy]".

By default, the Storefront supports many default DNN standard tokens (<http://www.revindex.com/Resources/Knowledge-Base/Standard-DNN-Tokens>). In addition, if available, the Storefront can use DNNSharp MyTokens (<http://www.dnnsharp.com/dnn/modules/my-custom-tokens>) to create very powerful conditional tokens that can query deep information within your database and elsewhere.

Revindex Storefront supports token replacement within HTML content for several key places such as product, category, manufacturer and distributor descriptions, as well as within communication templates. To use token replacement, you must enable the **Replace tokens** feature under **Configuration > General** settings first.

## Lookup Values

For performance reasons, Revindex Storefront occasionally uses alternate lookup values internally to represent statuses, country or subdivision codes. Certain lookup values are also ISO compliant and is internationally recognized for compatibility.

# Account Types

Name	Value
Checking	1
Savings	2

## Country and Subdivision Codes

The Storefront follows the official **ISO-3166-1 Alpha 2** code for all country code references (e.g. "US" for United States) and follows the **ISO-3166-2** code for the respective subdivisions (e.g. "US-CA" for California). Please consult the official ISO list (<https://www.iso.org/obp/ui/#search/code/>) to look up country and subdivisions.

# Inventory Unit Types

Name	Value
Constant	1
Year	2
Month	3
Week	4
Day	5
Hour	6

# Package Types

Name	Value
Bag	3000
Box	2000
Envelope	1000
Pallet	5000
Tube	4000
Unspecified	1



# Payment Gateway Response Codes

Name	Value
Approved	1
Declined	100
Gateway Error	200
Network Error	300

# Payment Gateway AVS Response Codes

Name	Value
Match	1
AddressMatchOnly	100
PostalCodeMatchOnly	101
Declined	200
NotAvailable	300

# Payment Gateway CVV Response Codes

Name	Value
Match	1
NoMatch	100
NotAvailable	200

## Payment Method Types

Name	Value
Authorize.Net CIM	18
Authorize.Net SIM	13
Cash	1
Check	2
Credit Card	3
MasterCard IGS Hosted	14
Mollie	11
Money Order	4
None	7
PayFast	8
PayPal	6
Paystation 3 Party	15
Rewards Points	16
Sage Pay Form	17
Suomen Verkkomaksut	12
Towah	9
Voucher	10
Wire Transfer	5

# Payment Origin Types

	Value
Checkout	1
ManageOrder	2
Storefront	3
Recurring	4

# Payment Term Types

Name	Value
COD	1
Net30	5

# Recurring Interval Types

Name	Value
Day	1
Week	2
Month	3
Year	4

# Recurring Sales Order Status Types

Name	Value
Active	1
Hold	2
Invalid	3
Cancelled	4



# Rewards Points Operation Types

Name	Value
Usage	1
AdminModified	2
Issuance	3
Award	4

# Rewards Points Status Types

Name	Value
Inactive	1
Active	2
Hold	3
Cancelled	4

# Sales Order Detail Status Types

Name	Value
Pending	1
Ordered	2
Processing	3
Completed	4
Quoted	9

# Sales Order Origin Types

Name	Value
Checkout	1
Storefront	3
Recurring	2

# Sales Types

Name	Value
Sale	1
Quote	2

# Sales Order Status Types

Name	Value
Pending	1
Ordered	2
Processing	3
Completed	4
Cancelled	5
Declined	6
Incomplete	7
Preordered	8
Quoted	9

# Sales Payment Status Types

Name	Value
Pending	1
Paid	2
Cancelled	3
Refunded	4
Declined	5
Incomplete	6

# Sales Payment Transaction Types

Name	Value
Authorize	1
Purchase	2
Void	3
Refund	4
Invoice	5
Capture	6



# Shipping Status Types

Name	Value
Not Required	1
Not Shipped	2
Packing	5
Packed	6
Dispatching	7
Shipped	3
Undeliverable	4

# Voucher Interval Types

Name	Value
Day	1
Week	2
Month	3
Year	4

# Voucher Status Types

Name	Value
Inactive	1
Active	2
Hold	3
Cancelled	4

# Compliances

We strive to comply with as many governmental regulations as possible from countries around the world including PCI (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/pci/rvdwkpvm/section>), GDPR (<https://www.revindex.com/Resources/Knowledge-Base/Revindex-Storefront/gdpr/rvdwkpvm/section>) and others. However, compliance is a complex subject and often times extends beyond the functionality of the software requiring the cooperation of the stakeholders and oversight of your corporate policies. It is ultimately your responsibility to verify that your site complies with the necessary requirements.

# GDPR

The General Data Protection Regulation (<https://www.eugdpr.org/>) (GDPR) is a regulation on data protection and privacy for all individuals within the European Union. Please refer to the GDPR site for more details to ensure you properly comply to all the requirements. To ensure you comply with GDPR, please ensure your site is always running the latest version of the software.

## Cookie Requirement

In general, the Storefront relies on a small number of cookies to enable proper checkout functionality as well as to improve the quality of the product browsing experience. By default, we don't employ cookies for tracking analytics other than those explicitly enabled and configured by the merchant (e.g. Google Analytics). The Storefront may rely on generally available cookies made available by the Web site such as cookies to track the preferred language culture or session identifier.

To comply with GDPR, the merchant should offer the user the ability to consent to the use of cookies. Since cookies are generally used throughout the entire Web site, the consent form should be handled outside the scope of the Storefront, preferably on the home page where the user first lands on your site. The consent form should include terms of your privacy policy.

If the user does not consent to use cookies, the user will not be able to complete the checkout since there is no mechanism to associate the visiting user back to the items added to their cart. In such a case, you may want to notify the user the consequences of refusing cookies.

## Cookie Declaration

Below are the cookies employed by the Storefront.

Name	Description	Example value
__RequestVerificationToken	This is a security cookie used to ensure that any API requests are made from the originating page.	vh2SRV3KK4i-pBn9IAMuGa3josMm
AffiliateID	Track the affiliate body that should be entitled to commission for directing traffic or sales to your site. This cookie does not personally identify the visiting user.	129
ASP.NET_SessionId	Track the current user session on the Web site.	rdtvj35nmfuvkphc3zzlrmx4
language	Track the current preferred language of the user browsing the site.	en-US
rvdsfcart x	Track the cart session after the user adds a product to cart.	rvdsfsoguid=6dde9ecd-8ba4-4e05-a4e6-b4b36f7cb074
rvdsfuserid	Tracks the effective user of the cart session.	1878

rvdsfsoguid	Allows the merchant to provide a link to resume an open cart session.	6dde9ecd-8ba4-4e05-a4e6-b4b36f7cb074
rvdsfmsgsuccess	This cookie is not used for tracking. It is simply used to aide the user interface in displaying success or error message after saving.	"Saved successfully"

## Personal Data Requirement

By default, the Storefront requires only a small amount of personal information to complete the checkout process. It requires the name, email, phone and address. These are the minimal data requirements that we deem reasonable for a store merchant to contact the customer for support, calculate taxes, process payment, personalize receipt email or to fulfill an order. Additional personal data may be captured if optionally provided by the user (such as address book, company name, custom fields, or other fields that are made available from the general site registration, etc.). The Storefront does not share any customer data with any 3rd parties for marketing purposes, nor does it transmit any customer data back to Revindex. You are responsible for securely storing any personal data following industry best practices.

## Personal Data Erasure

Most optional data provided by the customer can be erased or deleted by the customer through the customer management modules such as address book, wish list or saved payments.

The Storefront does not allow deleting an order that has been placed, however, an order can be cancelled. This restriction is to ensure the accounting numbers should balance and needed for any tax audit purposes. Should a customer request for data erasure, you can replace the personal data with bogus data.

Additional data that was made available by the Web site to the Storefront (not directly collected by the Storefront), can also be erased or deleted from the Web site administration as needed.

# PCI

Your customer personal information is important to us. Revindex Storefront is built with security in mind from the ground up and complies with all PCI requirements. To ensure you comply with PCI, please ensure your site is always running the latest version of the software.

The Payment Card Industry Data Security Standard (<http://www.pcisecuritystandards.org>) (PCI DSS) governs how companies should process, store and transmit credit card information in a secure environment. Revindex Storefront complies with all PCI requirements including:

- Credit card information is never stored unless you configure it to store or you sell recurring products.
- Credit card encryption using AES 256-bit military strength cryptography.
- Encryption key can be changed once a year or anytime.
- Credit card verification numbers (CVV, CID, CVD) are never stored.
- Support for SSL (HTTPS) transactions.
- Validate against SQL injection and other cross site scripting attacks
- Voucher codes are encrypted in the database.