



## Release Notes - Active Commerce 3.2

### What's New?

- Sitecore 7.2, 7.5, 8.0 compatibility
- SES 2.2 upgrade
- New NHibernate-based database for orders, stock, wish lists, and other transactional data
- Coveo Search Provider support
- Scalability improvements
- More product stock flexibility: always in stock, backorder, preorder, and custom availability messaging
- Developer/extensibility improvements
- Enhanced order pipeline
- HTML caching support for sublayouts
- Lots of other small changes to make your Active Commerce implementation easier!

### Notes on Upgrading from Active Commerce 3.0 or 3.1

- Follow all instructions from Sitecore for upgrading from previous Sitecore versions.
- As with any Active Commerce upgrade, you should utilize WinMerge or another diff tool to analyze any changes in the base skin against any CSS, Javascript, or Sublayouts which you have skinned.
- We have provided example code on our GitHub for migrating your Wish List and Order data to the new Active Commerce database. Please reference the README on the GitHub project and test thoroughly. You may wish to engage Active Commerce professional services if you have significantly customized your order or wish list data.
  - <https://github.com/ActiveCommerce/migration>
- Item-based order data and the old order processing pipeline are still available via the “Legacy Orders” plugin. Reference the *Configuration Guide* for installation instructions.
  - Note that the namespace and assembly for legacy order architecture has changed, and will need to be updated in any customizations.
- The Scalability plugin is no longer needed, as all CD and CM servers should access order, stock, and wish list data directly in the Active Commerce database.

- References to the `ActiveCommerce.Web.Helpers` namespace should be replaced with `ActiveCommerce.Web.Extensions`.
- The `GetProductTotals()` extension method is obsolete, use `GetDisplayTotals()` product extension instead.
- If you had previously extended the `SES ProductStockManager` or implemented the `IProductStockManager` interface, you should update to now extend `ActiveCommerce.Products.Stock.ProductStockManager`.
- The `ProductDetails_Base` class is obsolete, use `IProductDetailsControl` instead.
- Avoid use of the `Cassette` method `Bundles.AddInlineScript`. This prevents use of HTML caching on the sublayout.
  - See “Output Caching and the Skinning System” in the *Active Commerce Configuration Guide*.

## New Features and Improvements

### Sitecore Version Support

- [AC-485] - Upgrade to SES 2.2
- [AC-486] - Sitecore 7.2 Support
- [AC-668] - Sitecore 7.5 support
- [AC-819] - Sitecore 8 support

### Coveo Search

- [AC-648] - Support for Coveo Search Provider, including automatic facet flagging for configured Active Commerce filters

### Orders and Order Processing

- [AC-492] - Create new order pipeline(s) that utilize new order database, move order creation earlier in the process, and provide better support for off-site payment
- [AC-497] - Ensure order number generation is thread-safe and scalable
- [AC-597] - Move existing orders, order processing, order history into a "legacy" orders plugin
- [AC-598] - Abstract order data display to utilize view models, allowing different backing stores for order data
- [AC-616] - Abstract order processing to allow running of different pipelines (legacy pipeline and new pipelines)
- [AC-624] - Create error handling pipeline for order processing
- [AC-625] - Provide basic support for SES Order Manager for viewing order data and changing order status
- [AC-644] - Allow preview/page edit of order receipt mail template by adding order id to query string

- [AC-693] - Display payment failure information inside order manager
- [AC-740] - Update "Type" on order lines to utilize product template name since we no longer have a default product category
- [AC-753] - Add check to ensure user isn't logged into Sitecore when submitting order, provide more helpful error message

## Wish Lists

- [AC-574] - Move wish lists from Sitecore master database into Active Commerce database

## HTML Caching

- [AC-149] - Update sublayouts to ensure they can use Sitecore HTML caching, enable caching on our sublayouts
- [AC-711] - Configure HTML cache clearing on publish for Sherpa site
- [AC-735] - Add a VaryByUrl sublayout caching option so that HTML caching doesn't break category-specific breadcrumbs on product detail page
- [AC-697] - Add a time-based expiration to sublayout caching so that stock/availability updates can be reflected on product detail pages

## Product Stock and Availability

- [AC-491] - Implement database-based stock values and a Sitecore DataProvider which allows editing of stock in the Content Editor
- [AC-758] - Ensure product detail page only makes a single stock check per product
- [AC-556] - Hide unused "stock" field on Variable Product
- [AC-759] - Implement support for various product stock/availability scenarios and make it easier to override product/stock purchasability logic and display

## Product Detail Page

- [AC-606] - Use new FindControlsOfType<T> extension on Product Detail Page to share model and view model amongst all controls
- [AC-721] - Synchronize gallery thumbnail / variant selection even when not utilizing color swatches
- [AC-755] - Switch displayed SKU # when selecting a variant on product detail page, and make it easier to extend page behavior when a specific variant is selected

## Product Data Modeling

- [AC-225] - Setup search defaults for non-bucketed product repositories
- [AC-552] - Add a "bucket category" insert option on non-bucket repositories
- [AC-559] - Add weight and other shipping specs to product variant, inherit from parent product if not present
- [AC-636] - Add different content tree icons for Product Repositories root, Repository, and

## Category items

### Product Catalog / Listing

- [AC-163] - Product export should zip file before emailing
- [AC-499] - Filter and comparison field folders no longer need to be called “Filters” and “Compare”
- [AC-615] - The “default” category/URL for all products is now the product catalog root (/products), as Sitecore does not recommend/support use of the Links database outside of administrative tools
- [AC-649] - Default catalog categories to “Manually Picked Products”
- [AC-652] - Enable use of Product Page tab without manually selecting all product type templates on the Product Catalog item (will now allow selection of any products in the site’s repository)

### Product URLs

- [AC-736] - Default “Product Code and Name” product URL format now uses two dashes as default delimiter instead of two underscores
- [AC-727] - SES “Product Code and Name” URL resolver is now replaced outright, as there are issues with the SES NameAndCodeProductUr1Resolver when security restrictions are present
- [AC-751] - “Product Code and Name” URL resolver now uses the index to ensure base template rather than an after-the-fact check in code

### Shopping Cart

- [AC-771] - ShoppingCartManager is now easier to extend and can be used to “manage” non-session carts
- [AC-772] - Allow override of the shopping cart used by the CheckoutController for cases where a separate checkout is desired for an alternative shopping cart

### Payment

- [AC-464] - Pass PayPal errors that happen before redirect back to user, such as address validation errors
- [AC-465] - Allow PayPal plugin to be used with SQL and MongoDB sessions
- [AC-542] - Add payment code as CSS class on checkout payment tabs to allow styling of particular payment options

### Shipping

- [AC-480] - Allow use of shipping services with empty XML configuration
- [AC-563] - Add more condition options to Shipping Rules by default

## Skimming

- [AC-579] - Add a `ConfigurationOrder` attribute to our `CassetteConfiguration` class, set to `Int32.MaxValue-1`, so that developers can override

## Development / Extensibility

- [AC-180] - View model classes can now be extended, and view model factories have been refactored for easier extensibility
- [AC-183] - All extension methods are now backed by a “helper” object registered as a singleton, allowing override in Unity
- [AC-478] - Audited codebase for methods and properties that should be marked “virtual” to allow override
- [AC-590] - Changed many product and other fields to map using Glass by Field ID instead of name to avoid naming conflicts with new fields
- [AC-638] - Make all configured pricing levels available on `Totals` object via indexer, in case multiple price levels need to be displayed
- [AC-728] - Our Unity bootstrapper, the `RegistrationFinder`, can now partially load assemblies even if loading of some types fails due to missing dependency or other error

## Issues Resolved

- [AC-198] - Product cache does not clear on product template changes
- [AC-199] - Last displayed product price still displays if an unavailable variant is selected
- [AC-205] - Certain rounding scenarios can result in cart totals that appear to be off by a penny
- [AC-281] - `TemplateExtensions.DescendsFrom` throws an exception if the template is null
- [AC-333] - Leaving out `CassetteHttpModule` results in less than useful error message
- [AC-382] - Style is off for jQuery UI elements in Sitecore Preview
- [AC-484] - Cannot checkout when Subtotal 0, Shipping > 0
- [AC-514] - SES `VisitorShopResolvingProcessor` has a memory leak
- [AC-527] - Cybersource plugin fails silently if `Credit` or `CancelReservation` Fails
- [AC-534] - Discount price on cart lines does not correctly account for quantity
- [AC-538] - Product export failed if a product was missing a product code
- [AC-543] - Default catalog item resolver needs additional null check
- [AC-545] - Error page presentation is missing header, footer, nav
- [AC-554] - Can't put both Specs and Full Specs tabs onto product detail page
- [AC-560] - Inconsistent cart item counts in checkout
- [AC-561] - Promo rule `QuantityCondition` does not factor in line quantities
- [AC-562] - Validation of Canadian postal codes fails when lower case letters are used
- [AC-567] - On Sitecore startup, product cache remote events can fire before unity has

been loaded

- [AC-572] - EditingNotAllowedException when saving entities
- [AC-573] - DivideByZeroException on receipt page under certain conditions
- [AC-577] - Segement builder rule conditions can't be used with our promos but still appear in rules editor
- [AC-580] - Change jquery.tmpl.min.js CDN url to avoid issues when user is also browsing microsoft.com
- [AC-581] - User can apply promotion condition based on catalog category but there is no corresponding promotion action
- [AC-586] - Reviews tab doesn't hide if reviews aren't active
- [AC-589] - Moving the site root causes runtime error
- [AC-619] - Generic Header is not skinnable
- [AC-620] - Glass data handler SitecoreFieldActiveCommerceImageHandler throws an exception when an image ID is not a valid ID
- [AC-633] - Sitecore 7 item boosting not working for products
- [AC-634] - Reindex not happening when same product is added/removed from multiple categories
- [AC-635] - Product cache should be site specific to avoid caching page editor output and/or site-specific domain objects
- [AC-640] - Update or deletion of variants does not cause reindexing of parent variable product
- [AC-641] - Deletion of products does not clear product cache
- [AC-642] - Gallery control on generic page breaks page editor
- [AC-643] - Shipping address component does not show states if customer has no shipping country
- [AC-646] - Sherpa Company Master Data not using country code
- [AC-650] - Translation Dictionary entries not re-populated after cache clear
- [AC-653] - VisitorShopResolvingProcessor corrupts the ContentDatabase in certain core database dialogs
- [AC-655] - Negative tax values cause exception on order
- [AC-662] - Paragraph tag in category description markup causes issues in Page Editor
- [AC-663] - Page Editor "commands" shown in markup on Category page
- [AC-666] - Product detail page gallery videos do not show when only one image is present
- [AC-671] - Double request on product detail page
- [AC-678] - Search index errors on 7.5
- [AC-692] - Default bucket sort should use [desc] instead of |desc
- [AC-698] - Dictionary NullReferenceException's on startup
- [AC-710] - Deleting product breaks wish lists
- [AC-712] - Storing non-variant items under a variable product results in error
- [AC-716] - Robot detection causes premature session end in Sherpa demo and development environments
- [AC-717] - VAT field shows as GUID

- [AC-719] - Discounts can result in negative order total
- [AC-725] - Filter field with empty field causes unclear `NullReferenceException`
- [AC-730] - Yellow color in Sherpa demo has no values
- [AC-732] - Unhelpful exception when previewing a product with bad site definition root path
- [AC-734] - Product list shows "View 0 more" when products per page is 1
- [AC-742] - Authorize.NET plugin does not log useful error on API authorization failure
- [AC-749] - Product family editor stops working after edit
- [AC-754] - ShopContextSwitcher's Dispose errors out for Agents and Tasks
- [AC-769] - Generic news feed component javascript still executes AJAX call when component is not on page
- [AC-780] - `AdvancedProductRepository.Get` with a blank query results in products from all repositories
- [AC-782] - `GlassItemToEntityMapper` throws `NullReferenceException` when `glassConfiguration` is Missing
- [AC-798] - `Sitecore.Ecommerce.Utils.MainUtil.FormatWith` being used instead of `StringExtensions.FormatWith` in some places, resulting in performance degradation