Sitecore Experience Commerce 10.1 Release Notes

February 25, 2021 – Released Sitecore Experience Commerce 10.1

March 23, 2021 – Updated Sitecore Experience Commerce 10.1 NuGet packages on <u>sitecore.myget.org</u> to resolve a NuGet dependency issue in the Storefront. No change was needed in the release packages distributed on <u>dev.sitecore.net</u>.

October 15, 2021 – Released an updated XC host file as described in <u>KB1000801</u>, for connecting to Identity Server. This is required to make XC 10.1 compatible with XP 10.1 Update-2.

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Improvements

Area	Improvements	ID
Entity	Entity archiving allows the Commerce Engine to move eligible, inactive	401884
archiving	Commerce entities stored in the Shared Environments database, to an archive	
	database. Pruning the Shared Environments database of unnecessary entities	
	prevents the database from expanding to an unmanageable size, and effectively	
	reduces the number of entities that Commerce operations must iterate through	
	when processing requests.	
	For more information, see <u>https://doc.sitecore.com/developers/101/sitecore-</u>	
	experience-commerce/en/entity-archiving.html	
Performance	Redis Connection Pooling - The Redis cache provider now uses connection pools	441962
	to help improve Commerce Engine and Commerce Engine Connect performance	
	when responding to high volume of complex requests for cached data.	
	For more information, see <u>https://doc.sitecore.com/developers/101/sitecore-</u>	
	experience-commerce/en/redis-connection-pooling-configuration.html	
Performance	Redis compression - The Redis cache provider compresses cached data at rest in	441962
	the cache store and during network transport.	
	For more information, see https://doc.sitecore.com/developers/101/sitecore-	
	experience-commerce/en/adding-redis-connection-options-to-commerce-	
	caching-configurations.html	
Performance	Implemented an in-memory cache for Redis data, on a per request basis. Then	441964
	Redis for the same Keys can be retrieved from in-memory cache/copy.	
Performance	Improved the speed of implementing cache updates after an incremental	426738
	indexing operation has completed.	

Area	Improvements	ID
Performance	Improved system cold start times in use cases where Storefront Direct	438275
	Navigation is enabled. This was achieved by reducing the impact of Sitecore	
	needing to make multiple calls to GetItem and GetChildren which in turn results	
	in many GetItemsAllLanguages() calls (which are external service calls from	
	Commerce Engine Connect on the CD to the Commerce Engine).	
	Implemented the <i>ResolvePath</i> method within Data Provider in Commerce	
	Engine Connect. The result includes issuing a Fast Query that will return all	
	configured catalog folders, which will be cached, and the ResolvePath will	
	therefore know when it needs to resolve the path or not.	
Bus Tools	For entity views of UI Hint type 'Flat', resolved the view properties' UI Types so	426628
	they can be rendered. UI Types include: Custom Entity Link, Custom Item Link,	
	Entity Link, Item Link, Sub Item Link, Html, Multiline, List, Download CSV, and	
	String By Data Type (OriginalType, DateTimeOffset, FullDateTime UI Type will	
	render the time also, Decimal, Sitecore.Commerce.Core.Money, Html, List,	
	String (default).	
Bus Tools	Added a "*" indicator after the field title for required data entry fields.	426322
Containers	Moved configuration file patches and transformations, write permission, and	457374
	LogMonitor configurations to the Resources container, to align with similar	
	structural changes made in the Experience Platform this release.	
	For more information, see <u>https://doc.sitecore.com/developers/101/sitecore-</u>	
	experience-commerce/en/sitecore-commerce-container-sdk.html	
SDK	Converted Postman samples to Postman Collection Format to v2.1	459177

Resolved Issues

Area	Resolved Issues	ID
Catalog	A cloned catalog/category incorrectly references ChildrenCategoryList from the	431658
	master catalog instead of from the source catalog that was cloned. The result was	
	a "The requested document was not found" error page when the user selected it.	
Catalog	Associating the sellable item to an imported Catalog creates a duplicated	425909
	InventoryInformation component.	
Catalog	After deleting all of a sellable item's variants, the sellable item continues to display	455615
	a non-existent variant in the Content Editor, which has the same name as the	
	sellable item.	
Bundles	Product Details page throws an error when displaying a bundle (static or dynamic)	447915
	with products that have no variants.	
Promotions	A promotion code gets applied to the order even after promotion has expired.	429695
Promotions	GetPromotionBenefitDetailsViewBlock is missing a confirmation if the Entity is of	418792
	type Promotion, which causes unnecessary processing to occur. It causes the block	
	to partially execute by running the GetActions method.	
Promotions	The promotion qualification "Cart Item is in [specific] Category" does not function	457972
	correctly when associated with a new category that had just been created.	
Orders	OrderDetails in the ExperienceProfile displays empty CartLines, where the SXA	430771
	Storefront has not been installed.	

Area	Resolved Issues	ID
Payments	A Braintree failure occurs when submitting an order; the error may not be	373422
	properly handled when a connection issue with Braintree occurs.	
Engine	Unexpected errors can occur when deriving custom policies from the	446886
	EntityStoreSqlPolicy, if the derived custom policy does not point to the Global or	
	Shared database. This EntityStoreSqlPolicy is used in native Commerce Engine	
	blocks which work with schemas of Global or Shared databases.	
Engine	Invalid artifact sets are included in the EnvironmentInitializationPolicy, pertaining	413635
	to these environment configuration files:	
	Plugin.AdventureWorks.CommerceAuthoring-1.0.0.json	
	Plugin.AdventureWorks.CommerceShops-1.0.0.json	
	Plugin.Habitat.CommerceAuthoring-1.0.0.json	
	Plugin.Habitat.CommerceShops-1.0.0.json	
Engine	The InitializeLanguages method of the CommerceRepository class setting empty	445589
	values to _languages collection, which caused varying errors and requiring	
	recycling the application pool to resolve.	
Commerce	Fetching a product from the cart fetches the product from the wrong catalog, in	429170
Engine	this scenario: Create a new catalog and category. Associate a sellable Item from a	
Connect	different existing catalog to this new catalog & category. Create a new Storefront	
	site and associate it with this new catalog. Browse the site and add this newly	
	associated sellable item to the cart. Go to the cart page and observe the URL to	
	the sellable item. Result: it incorrectly resolves to the wrong catalog.	
Bus Tools	BizFx URLs with encoded entity IDs get re-encoded upon re-authentication,	336679
	causing blank page content after login due to a redirect to an incorrect URL.	
Storefront	The Profile Editor component throws an error upon rendering the Controller in	313413
	Experience Editor.	
Storefront	The Storefront's branded theme broke Sitecore Forms fields when tracking of the	429494
	form is enabled, resulting in a "SyntaxError: Unexpected end of JSON input" error	
	displayed on the page after typing the text to the form field.	
Sitecore	The Commerce Editor displays an error due to missing "Sitecore.Annotations"	449603
integration	namespace in CommerceAppLayout.aspx.	
Indexing	Sitecore Master and Web indexing fails on crawling catalog data when "Switch on	458359
	rebuild" and "Solr cloud" are used.	
Indexing	Catalog items in the Sitecore Master and Web indexes that are marked for	460511
	deletion do not actually get deleted during incremental indexing.	
Indexing	Minions do not successfully rebuild search indexes during deployment - causing	421490
	price calculation issues.	
Indexing	FullIndexRebuild creates corrupted documents with empty values, for example	437031
	creating empty values.	
Indexing	The ItemIncrementalIndexMinion is supposed to remove entities from the index	449850
	list once they have been indexed, but in some situations it also removes new not	
	yet indexed entities from the index list.	
Indexing	Catalog data is unavailable from sitecore_web/master_index during a full rebuild	452786
	when SwitchOnRebuild is enabled.	
Caching	CatalogRepository.DefaultCache does not get updated properly on the CD server,	451763
	in a scaled deployment. The IndexingCompletedEventHandler did not remove	
	related entries from caches, as expected.	

Area	Resolved Issues	ID
Performance	Thread pool starvation and blocking can occur as a result of synchronous code	427065
	incorrectly calling asynchronous methods.	
Performance	Performance may degrade where <i>SelectListEntitiesByRangeWithoutVersioning</i> is	435549
	intended to function without Entity Versions, but in practice is still implementing	
	the sorting of Entity Versions.	
Performance	Server Garbage Collection is not enabled by default on the Shops instance.	442628
	Enabling garbage collection, depending on the environment, could reduce the	
	time paused for Garbage Collection by as much as 90%.	
	There are two main modes: Workstation mode (designed to minimize delays of UI	
	applications) and Server mode (designed for maximum application throughput –	
	e.g. on not multi-core servers with web applications). Implemented Server mode	
	garbage collection, by default.	
Performance	Double requests of GetCatalogItemAllLanguages SellableItem are sent from	440757
	Commerce Engine Connect to the Commerce Engine.	
Performance	The Commerce Engine (e.g. Shops) does not always reconnect to the Redis server	435241
	when the connection is lost after startup. As a result of this issue, performance	
	would decrease after traffic gets redirected from the Redis to the MSSQL server.	
Performance	Performance is not optimized in Sitecore.Framework.Caching libraries.	435253
Security	The Journal entity stores the bearer token, which could result in a potential	424657
	security risk.	
Localization	The "Localize Property" dialog does not display existing data from the variant field	405463
	and is not saving the new data to the variant.	
Localization	The EditSellableItemBundleQuantity property name is not viewable in the Control	420760
	Panel.	
Localization	Localize Property pop-ups are not correctly localized in some dropdown lists.	423566
Localization	The localization of some placeholder text within search boxes (light grey guidance	423567
	text) is displayed only in English.	
Localization	The localization of the word "Priority" name and value that is presented in column	423574
	headers is displayed only in English.	
Localization	The localization of the Pricing Option name (e.g. Manual or Automatic) presented	423345
	on the Dynamic Bundle page is displayed only in English.	
Localization	The localization of the MakePurchasable action that is displayed in a dialog box on	296733
	a Bundle settings page is displayed only in English.	
Globalization	Translated keys in the key's xml file were not correctly reflected on the Business	423344
	Tools UI.	

Known Issues

Area	Known Issues	ID
Storefront	When importing CSS changes to the Storefront site, the import can fail depending	459169
	on how you had opened the Experience Editor.	
	The import fails, changes are not reflected in the site, when the Experience Editor	
	was launched directly from the Sitecore Launchpad.	

Area	Known Issues	ID
	The import succeeds when the Experience Editor was instead launched as follows:	
	Open the Content Editor from the Sitecore Launchpad, navigate to	
	/sitecore/Content/Sitecore/Storefront/Home, then right-click on the Home node	
	and select Experience Editor.	
Business Tools	LocalizationEntities cache is not generated if the sellable item is still present in the	460421
	SellableItems cache	
Containers	During the XC10.0 container to 10.1 container upgrade, some specific item	385010
upgrade	permissions may get lost across the upgrade procedure. These lost permissions	453743
	would need to be re-established after the upgrade.	

Removed, Deprecated, Obsoleted Code

Area	Removed or Deprecated	ID
PaaS	Removed the PaaS deployment option; it is no longer supported as of XC10.1.	438280
	Deployment via Containers is the recommended deployment option.	
	Configuration and code related to Microsoft Application Insights [®] for monitoring	
	the Commerce Engine in a PaaS deployment is not supported and will be removed	
	in a future release.	
Azure Search	Removed support for Azure Search; it is no longer supported as of XC10.1.	430468
Sample	Removed the sample Commerce Engine plugin and related policies that were	430467
Content Hub	included in the 10.0 release. This connector provided a sample one way	
Connector	synchronization of product attributes from a specific release of Content Hub's	
	PCM module and product images from Content Hub's DAM module.	
Commerce	Deprecated Sitecore.Commerce.Core/Components/MessageComponent.cs	449711
Core	because it is no longer used.	
Catalog	Deprecated Sitecore.Commerce.Plugin.Catalog/Pipelines/Blocks/ItemIndexing/	452786
	SolrDeleteAllDocumentsByArtifactStoreBlock.cs because it is no longer used.	
Commerce	Deprecated the GetSitecoreItemId(string productId, string variantId) method from	429170
Engine	TranslateCartLineToEntity. This change was made as part of resolution bug 429170	
Connect	(in the Resolved Issues section above).	
Performance –	Obsoleted and replaced methods as follows:	449710
thread safety	Within Sitecore.Commerce.Core/Components/Component.cs:	
	Obsoleted:	
	public void SetPolicy(Policy policy)	
	public bool HasComponent <t>() where T : Component</t>	
	public T GetComponent <t>() where T : Component</t>	
	public List <t> GetComponents<t>() where T : Component</t></t>	
	public void SetComponent(Component component)	
	public void RemoveComponent(Type componentType)	
	public void RemoveComponent(string componentId)	
	Replaced with:	
	public void AddOrUpdatePolicy(Policy policy)	
	public bool HasChildComponent <t>() where T : Component</t>	
	public T GetChildComponent <t>() where T : Component</t>	
	public List <t> GetChildComponents<t>() where T : Component</t></t>	
	public void AddOrUpdateChildComponent(Component component)	

Area	Removed or Deprecated	ID
	public void RemoveChildComponent(Type componentType)	
	public void RemoveChildComponent(string componentId)	
	Within Sitecore.Commerce.Core/Models/Model.cs	
	Obsoleted:	
	public void SetPolicy(Policy policy)	
	Replaced with:	
	public void AddOrUpdatePolicy(Policy policy)	
	Sitecore.Commerce.Core/Policies/PolicyContainer.cs	
	Obsoleted:	
	public void SetPolicy(Policy policy)	
	Replaced with:	
	public void AddOrUpdatePolicy(Policy policy)	
	The above methods were refactored as part improving performance related to	
	resolving thread-safety issues.	

Breaking Changes

Area	Breaking Changes	ID
Newtonsoft	If developing with the Commerce Engine Connect module you may experience a NU1605 nuget error detecting a package downgrade of the Newtonsoft.json package, for example from version 12.0.3 down to 11.0.2. This is by design and can be ignored by including a NoWarn="NU1605" value to the PackageReference, for example: <packagereference <br="" include="Newtonsoft.Json" version="11.0.2">NoWarn="NU1605" /> There are in fact no breaking changes between versions and this reference will not cause any functional issues.</packagereference>	447090
Type Extensions	Moved TypeExtensions.cs from the Sitecore.Commerce.Plugin.Catalog to Sitecore.Commerce.Core. This change was made as part of the Data Archiving improvement, to avoid an ambiguous reference.	432630
Commerce Entity Class	<pre>Within the Sitecore.Commerce.Core/Entities/CommerceEntity.cs class, four methods have been changed: From: public T GetComponent<t>() where T : Component public bool HasComponent<t>() where T : Component public bool HasPolicy<t>() where T : Policy public T GetPolicy<t>() where T : Policy To: public T GetComponent<t>(bool matchBaseType = false) where T : Component public bool HasComponent<t>(bool matchBaseType = false) where T : Component public bool HasPolicy<t>(bool matchBaseType = false) where T : Policy public bool HasPolicy<t>(bool matchBaseType = false) where T : Policy public bool HasPolicy<t>(bool matchBaseType = false) where T : Policy public bool HasPolicy<t>(bool matchBaseType = false) where T : Policy public T GetPolicy<t>(bool matchBaseType = false) where T : Policy public T GetPolicy<t>(bool matchBaseType = false) where T : Policy public T GetPolicy<t>(bool matchBaseType = false) where T : Policy public T GetPolicy<t>(bool matchBaseType = false) where T : Policy public T GetPolicy<t>(bool matchBaseType = false) where T : Policy</t></t></t></t></t></t></t></t></t></t></t></t></t></t></t></pre>	446886

Area	Breaking Changes	ID
	These methods compare types and return true if the result is non-null and can be	
	converted to type T. Problems could occur where an exact type match was expected.	
	Note that the exact type match is expected by default, so that no changes should	
	need to be made in custom code. But in the case where a base type match is	
	expected, the Boolean parameter 'true' needs to be passed.	
Commerce	The commerce caching configuration has changed. The configuration value for:	447090
Redis Caching	/configuration/sitecore/commerceCachingConfiguration/cacheSettings/redis/opti ons@type has changed:	
	From: Microsoft.Extensions.Caching.Redis.RedisCacheOptions,	
	Microsoft.Extensions.Caching.Redis	
	To: Sitecore.Commerce.Engine.Connect.CommerceRedisCacheOptions,	
	Sitecore.Commerce.Engine.Connect.Caching	

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