

Sitecore Experience Commerce 10.3 Container Upgrade Guide

Instructions for upgrading a containerized environment from SXC 10.2 to SXC 10.3

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1. Introduction

This guide describes how to upgrade a Sitecore Experience Commerce™ (XC) 10.2 containerized solution to Sitecore XC 10.3.

There are no database upgrades required when you upgrade a containerized solution from Sitecore XC 10.2 to Sitecore XC 10.3. This guide provides instructions that let you connect your updated XC10.3 containers to an existing database as part of the Sitecore XP upgrade process.

2. Prerequisites

You can use the Sitecore XC container upgrade procedure to upgrade your Sitecore XC installation if your environment fulfills the following prerequisites:

- You are upgrading a Sitecore XC 10.2 environment to Sitecore XC 10.3
- You have created backup copies of your Sitecore XP and XC databases.

IMPORTANT

We strongly recommend that you perform the upgrade on copies of your production databases that contain all your data.

- You have created a backup of your Commerce Engine.

2.1. Limitations

This document describes how to upgrade a single Sitecore XC environment. You may need to repeat the process if your Commerce solution is deployed in a distributed environment.

2.2. Compatibility

See [this Knowledge Base article](#) for additional details about Sitecore XP and XC software compatibility for this release.

2.3. Software requirements

Before you proceed with the upgrade, make sure that the environment meets the software requirements.

2.3.1. Software requirements for Docker and for Kubernetes cluster and client

For a list of required software for a Docker host machine or for Kubernetes cluster and client, refer to the Software requirements section in the *Sitecore Upgrade Container Deployment Guide for Sitecore XP 10.3* available on the [Sitecore Downloads](#) page.

NOTE

Since you must upgrade Sitecore Experience Platform before you proceed with the Sitecore XC upgrade process, this guide assumes that when you are ready to start the XC upgrade process, and that you already have the required Docker or Kubernetes software.

2.3.2. Sitecore XC software requirement

The Sitecore XC upgrade process requires the following Sitecore XC software package available on the [Sitecore Downloads](#) site:

- The Sitecore XC Packages for On Premises WDP
- The Sitecore Container SDK (`Sitecore.Commerce.Containers.SDK.10.3.*.zip`) package

3. Overview of the Sitecore XC container upgrade process

The following summarizes the steps you perform to upgrade a Sitecore Experience Commerce 10.2 solution to Sitecore XC 10.3 containerized environment:

- [Upgrade Sitecore XP.](#)
- [Build and deploy your custom Commerce solution using containers.](#)
- [Perform post-upgrade steps.](#)

4. Upgrade Sitecore Experience Platform

To upgrade Sitecore XP, follow the instructions provided in the *Sitecore Experience Platform Upgrade Container Deployment Guide* for XP 10.3 (available on the [Sitecore XP 10.3 Downloads page](#)).

You must complete the following steps as part of the Sitecore XP upgrade before you upgrade your Sitecore Experience Commerce solution:

- Upgrade the Sitecore SQL databases.
- Clean up your environment.
- Upgrade the Sitecore Experience Accelerator (SXA) module in containers (if the environment you are upgrading uses the SXA Storefront).

IMPORTANT

Sitecore Experience Accelerator is a prerequisite for the SXA Storefront. To upgrade SXA, make sure to follow instructions for XP module upgrades in Sitecore Upgrade Container Deployment Guide, and the [SXA upgrade instructions](#).

5. Build and deploy your custom Commerce solution using containers

To build your custom solution and deploy the individual Sitecore roles using Sitecore XC 10.3 containers:

1. Download and use the latest released code base included in the [Sitecore XC 10.3 Packages for On Premises WDP](#).
2. Consume all breaking changes listed in the release notes, and ensure to resolve all conflicts.

IMPORTANT

Your custom XC solution must fully align with the new Sitecore Commerce release. For a summary of all policy and configuration changes in Sitecore XC 10.3 that might affect your Commerce Engine customizations, refer to the *Sitecore Upgrade Guide for Sitecore XC 10.2 to XC 10.3*, available for download at this [location](#).

3. Use the new Sitecore Commerce Docker images included in the `Sitecore.Commerce.Container.SDK` package as a base in the Docker files for the corresponding roles, and [rebuild your custom Commerce solution images](#).
4. Deploy the containerized environment using the new Sitecore Commerce roles images with your solution, and configure it to use the upgraded SQL databases.

6. Post-upgrade steps

After you have successfully upgraded your Sitecore XC containerized solution, you must complete the following tasks to complete the upgrade:

- [Disable antiforgery protection \(temporary\)](#)
- [Bootstrap the Commerce Engine](#)
- [Flush the Redis cache](#)
- [Synchronize Control Panel content items](#)
- [Update the data templates](#)
- [Re-enable the anti-forgery setting](#)
- [Update the storefront domain configuration](#)
- [Rebuild Commerce indexes](#)
- [Republish and rebuild the search indexes](#)

6.1. Disable antiforgery protection (temporary)

You must disable antiforgery setting for the Business Tools in the Authoring service configuration file.

NOTE

When you place a call to the Commerce Engine API from outside the Commerce Business Tools (for example, using Postman), you must disable the antiforgery protection setting in the `wwwroot\config.json` file.

To disable the antiforgery protection:

1. Locate the anti-forgery setting and change the value to false:

```
"AntiForgeryEnabled": false,
```

6.2. Bootstrap the Commerce Engine

You must bootstrap the Commerce Engine to propagate the changes you made to the environment configuration files into the global database.

The Sitecore XC SDK includes code samples for DevOps operations, so that you can access the Sitecore XC API directly. The following instructions assume that you are using Postman to exercise the Sitecore XC API and that you have imported the Adventure Works and Habitat environments into Postman.

To run the bootstrap operation:

1. Launch the [Postman](#) application.
2. In the **Collections** pane in Postman, navigate to the *Authentication* folder.
3. Open the `Sitecore` folder and execute the `GetToken` request.
When Postman displays an access token in the **Body** pane, authentication is successful.
4. In the **Collections** pane, navigate to the *SitecoreCommerce_DevOps* folder.
5. Open the *1 Environment Bootstrap* folder, and execute the `Bootstrap Sitecore Commerce` request.
6. Restart the container.

6.3. Flush the Redis cache

After you have completed all of the steps required to upgrade the Commerce Engine, you must flush the Redis cache as described in the [Redis documentation](#) to remove any content that may have been added to the cache during the upgrade process.

6.4. Synchronize Control Panel content items

As part of the upgrade process, you must synchronize content items in the Control Panel to the Commerce Engine.

If you previously synchronized Sitecore Control Panel content items to the Commerce Engine, you must [re-synchronize the content](#).

If this is the first time Sitecore Control Panel content items are synchronized to the Commerce Engine, use [this procedure instead](#).

6.4.1. Re-synchronize Control Panel content items

To re-synchronized Control Panel content item paths:

1. Launch the Postman application.
2. Navigate to the *ContentAPISamples* folder in the **Collections** pane.
3. Open the *DoActions* folder and execute the `Sync Content Path` sample for each environment that has a different data store (that is, uses a distinct dataset and configuration, identified by a different `ArtifactStoreId`).

NOTE

You might need to obtain the `EntityView` value to use as input for the sample if you receive an error related the entity version.

4. Launch Internet Information Service (IIS) Manager and perform an IIS restart.

6.4.2. Synchronize Control Panel content items for the first time

If you have not synchronized Control Panel content items before, perform the following steps:

1. Launch the Postman application.
2. Navigate to the *SitecoreCommerce_DevOps* folder in the **Collections** pane.
3. Open the *3 Environment Initialize* folder, and run the `Ensure\Sync default content paths` sample request for each environment that has a different data store (that is, for each environment that use a different `ArtifactStoreId`).

NOTE

The operation might take several minutes to complete. You can run the `Check Long Running Command Status` sample in Postman to ensure that the synchronization operation completes.

4. Launch Internet Information Service (IIS) Manager and perform an IIS restart.

6.5. Update the data templates

To update the data templates:

1. Log in to Sitecore Launchpad (<https://<host>/sitecore>) and click **Content Editor**.
2. Click the **Commerce** tab.
3. Click **Delete Data Templates**.
4. Click **Update Data Templates**.

6.6. Re-enable the anti-forgery setting

Re-enable the anti-forgery setting for the Business Tools in the Authoring service configuration file.

To enable the anti-forgery setting:

- Locate the anti-forgery setting and change the value to true:

```
"AntiForgeryEnabled": true,
```

6.7. Update the storefront domain configuration

If there is an existing storefront site in your current Sitecore XC deployment, update the configuration in the new `domain.config` file with your own storefront domain configuration. The location of this configuration is different for containerized deployment.

6.7.1. Update the storefront domain in a non-containerized deployment

To update the storefront domain configuration in a non-containerized deployment:

- Open the new `\inetpub\wwwroot\<sitename>\app_config\security\domains.config` file, and update the configuration to reflect the domain name of your storefront site.

6.7.2. Update the storefront domain in a containerized deployment

In a container deployment, the `domains.config` is stored in a shared volume.

To update the storefront domain configuration for your site in containers:

- In Docker, open the `C:\containers\<cd or cm>\domains-shared\domains.config` file, and update the domain information as required.

6.8. Rebuild Commerce indexes

To rebuild the Sitecore XC indexes:

NOTE

Before you rebuild the Sitecore indexes, make sure that previous indexes were deleted.

1. Launch the Postman application
2. In the **Collections** pane, navigate to the *SitecoreCommerce_DevOps* folder.
3. Expand the *Minions* folder and execute the following requests:

NOTE

When you execute the indexing minion requests, make sure that they point to the URL of the Commerce Engine instance that is running the Minions service.

- Run `FullIndex Minion - Orders`
- Run `FullIndex Minion - Customers`
- Run `FullIndex Minion - PriceCards`
- Run `FullIndex Minion - Promotions`
- Run `FullIndex Minion - Catalog Items`

6.9. Republish and rebuild the search indexes

To republish the site and re-index the core, master and web indexes:

1. Log in to Sitecore Launchpad (<https://<host>/sitecore>) and click on **Content Editor**.
2. Click the **Publish** tab.
3. Click **Publish** and select **Publish site** from the drop-down menu.
4. In the **Publish Site** window, select **Republish – publish everything** and click **Publish**.
5. Return to the Sitecore Launchpad and click on **Control Panel**.
6. Click on **Indexing manager**.
7. Select the following indexes from the Local Indexes list and click **Rebuild**:
 - `sitecore_core_index`
 - `sitecore_master_index`
 - `sitecore_web_index`