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1. Introduction

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

These instructions apply to on-prem solutions.

WARNING

Prior to performing the Sitecore XC upgrade, you must ensure to review the release notes and the listed breaking changes.

1.1. Overview of the Sitecore XC upgrade process

The instructions in this document comprise the upgrade steps for Sitecore Experience Commerce (XC).

Starting with Sitecore XC 10.2, Sitecore XC uses a new upgrade methodology that combines steps from the Sitecore XP and Sitecore XC upgrade processes.

The Sitecore XC 10.3 solution upgrade process is as follows:

- Review upgrade prerequisites
- Upgrade Sitecore XP and SXA
- Safeguard Sitecore XC databases
- Upgrade SXC databases

IMPORTANT

Do not connect to SQL databases at this point nor perform any post-upgrade steps.

You connect databases and perform post-upgrade steps only *after* you have completed a new installation of Sitecore Experience Commerce.

- Install the new Sitecore Experience Commerce version
- Connect all databases
- Apply your XC customizations
- Complete post-upgrade steps



2. Prerequisites

These upgrade instructions assume you are upgrading from Sitecore XC 10.2 to Sitecore XC 10.3.

2.1. Release Notes

Review the release notes and breaking changes information for Sitecore XC 10.3 available on the Sitecore Downloads site.

2.2. Download Sitecore software

You must upgrade Sitecore Experience Platform (XP) and Sitecore Experience Accelerator (SXA) before you proceed with the Sitecore Experience Commerce (XC) upgrade.

Sitecore Experience Platform software and upgrade tools

Download the Sitecore XP upgrade guide for 10.3 and ensure to meet all documented Sitecore XP prerequisites for upgrading.

Sitecore Experience Accelerator (SXA) software

The Sitecore SXA upgrade occurs as part of the Sitecore XP upgrade process for modules, as documented in the Upgrade Guide for Sitecore XP.

To prepare for the SXA upgrade, download the SXA software package and upgrade guide for 10.3.

2.3. Required Sitecore Experience Commerce XC software and documentation

In preparation for the upgrade, download the following Sitecore XC software and documentation resources on Sitecore XC Downloads page:

- Sitecore XC 10.3 Packages for On Premises WDP
- Sitecore XC 10.3 Installation Guide for On-Prem Deployments



2.4. System requirements

Before you upgrade to the new version of Sitecore XC, you must ensure that your system meets the software and hardware requirements for this new version.

For more information about system and hardware requirements, refer to Sitecore XC 10.3 Installation Guide for On-Prem Solutions.

For software compatibility information, see the Sitecore XC compatibility matrix available on Sitecore Knowledge Base.

2.4.1. SQL Server

Before you upgrade the databases, you must ensure that your SQL Server installation is compatible with the new version of Sitecore XC.

If your current version of SQL Server is not compatible, you must upgrade to a compatible version of SQL Server before you upgrade or deploy.

2.4.2. Solr

Ensure that you have a compatible version of Solr. For more information, see the Sitecore compatibility table.

When you deploy the Sitecore XC 10.3.0 on a single server in a local development environment, the Solr server and all the required cores and configurations are installed.

If you use SolrCloud, you must add the authentication for SolrCloud to the appropriate connection strings.



3. Upgrade Sitecore XP and SXA

Proceed with the Sitecore XP 10.3 software upgrade by completing the instructions provided in the following sections of the *Upgrade Guide for Sitecore Experience Platform 10.3*, available on the Sitecore Experience Platform 10.3 download page.

· Prerequisites for upgrading Sitecore XP

IMPORTANT

As part of Sitecore XP upgrade prerequisites, you must follow any instructions related to modules for upgrading Sitecore Experience Accelerator and Sitecore PowerShell Extensions modules to the latest version compatible with Sitecore XP 10.3.

To upgrade Sitecore SXA, follow instructions provided in Sitecore Experience Accelerator 10.3 Upgrade Guide.

- Prepare xDB
- Safeguard the databases

IMPORTANT

When safeguarding the databases, also follow these steps to safeguard the Sitecore XC databases.

- In the chapter Upgrade Sitecore XP, complete the steps documented in the following sections:
 - Upgrade the databases

IMPORTANT

Do not connect to SQL databases at this point nor perform any postupgrade steps.

You connect databases and perform post-upgrade steps only *after* you have completed a new installation of Sitecore Experience Commerce.

• Install an instance of Sitecore XP 10.3



4. Safeguard Sitecore XC databases

The upgrade process might involve executing some SQL scripts to upgrade the Sitecore XC databases. However, if you execute the scripts against databases that are in use, it can make the system unstable. To avoid this situation, you must safeguard the databases by ensuring that they are not being used when you run the SQL scripts.

To safeguard the databases:

- Use the backup tools to make a copy of the databases.
- Disable the environment.
- Stop all Sitecore web applications and services.
- Stop all XC web applications and services, including the XC Business Tools and Engine IIS services.



5. Upgrade SXC databases

There are no changes in Sitecore XC databases between Sitecore XC 10.2 and XC 10.3. Database upgrade is not required.



6. Install the new Sitecore Experience Commerce version

The new upgrade process requires that you install a new version of Sitecore Experience Commerce on top of the new Sitecore XP and SXA module installed in previous steps.

To install Sitecore Experiences Commerce, follow the instructions provided in the Sitecore Experience Commerce Installation Guide available on the Sitecore Downloads page.



7. Connect the databases

Connect the Sitecore XP databases and make sure that the Sitecore XC connection strings are up-todate.

7.1. Connect Sitecore XP to SQL databases

To connect Sitecore XP to SQL databases, follow the instructions provided in the Upgrade Guide for Sitecore XP 10.3, in the section *Install and configure Sitecore XP 10.3.0*.

7.2. Verify database connection strings for Sitecore XC

To ensure Sitecore XC connection strings are updated for the Commerce Engine:

- Open the wwwroot\bootstrap\Global.json file, and make sure the database connection string in the Sitecore.Commece.Plugin.SQL.EntityStoreSQLPolicy policy specifies the correct value.
- Open the wwwroot\data\environments\Plugin.SQL.PolicySet-1.0.0.json file, and make sure the database connection string in the Sitecore.Commerce.Plugin.SQL.EntityStoreSQLPolicy policy specifies the correct value.



8. Apply your XC customizations

After you completed the upgrade, apply your customizations to the new version of the Sitecore XC.

NOTE

Before you apply XC customizations, make sure to address and deploy any customizations within Sitecore XP, as per the Sitecore XP Upgrade guide.

The following are typical steps you perform to apply your customizations after you've upgraded Sitecore XC to a new version:

NOTE

Some of these steps might not be required based on your specific implementation of Sitecore XC.

- If you have Commerce Engine Connect customization, make sure to apply them to your Sitecore XP configuration.
- Make sure to apply the following changes to your Commerce Engine SDK:
 - Merge all policy/environment changes, taking into account any custom policies.
 - Update all connection strings to SQL, Solr and Redis services.
 - Compile against the new Sitecore XC Engine 10.3 versions of the plugins and address all breaking changes.
 - Deploy the new version for each Commerce Engine service.
- If a custom BizFx SDK solution exists, ensure to merge any code changes from the new BizFx SDK, rebuild and then deploy.



9. Perform post-upgrade steps

After you have upgraded to a new version of Sitecore XP, SXA, and Sitecore XC, perform post-upgrade steps.

9.1. Post-upgrade steps for Sitecore XP and SXA

Follow Sitecore XP and SXA post-upgrade steps as documented in the Upgrade Guide for Sitecore Experience Platform 10.3, and the Upgrade Guide for Sitecore Experience Accelerator 10.3, respectively.

9.2. Post-upgrade steps for Sitecore XC

After you have completed Sitecore XP and SXA post-upgrade steps, perform the following Sitecore XC post-upgrade steps:

- Disable antiforgery protection (temporary)
- Bootstrap the Commerce Engine
- Flush the Redis cache
- Synchronize Control Panel content items
- Update the data templates
- Update the storefront domain configuration
- Rebuild Commerce indexes
- Republish and rebuild the search indexes
- Verify the current version number the storefront



9.3. 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,



9.4. 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.
- 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. Launch Internet Information Services (IIS) Manager and perform an IIS reset.

9.5. 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.



9.6. 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.

9.6.1. 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.

9.6.2. 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.



9.7. 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.



9.8. 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,

9.9. 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.

9.9.1. 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.

9.9.2. 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.



9.10. Rebuild Commerce indexes

The schema update to Solr 8.11.2 and the introduction of new indexes require a complete rebuild of search 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



9.11. 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



10. Verify the current version number the storefront

If you installed the SXA storefront as part of the upgrade, verify that the deployment uses the correct version of the Storefront.

To verify the version number of the storefront:

- 1. Log in to Sitecore Launchpad and click **Content Editor.**
- 2. In the left pane, navigate to /sitecore/system/Settings/Foundation/Commerce Experience Accelerator/Upgrade/Current.
- 3. Verify that the value in the **Version** field is 8000.