

Metalogix® StoragePoint 6.1.1

SharePoint Upgrade Using Metalogix  
Solutions (2013 to 2016)



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#### Legend

 **CAUTION:** A caution icon indicates potential damage to hardware or loss of data if instructions are not followed.

 **IMPORTANT, NOTE, TIP, MOBILE OR VIDEO:** An information icon indicates supporting information.

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# SharePoint 2013 to 2016 Upgrade

## Upgrade Overview

StoragePoint fully supports the primary 2013 to 2016 upgrade method - database attach.

For more information on the SharePoint specific details of upgrading, please see the Microsoft [website](#).

## Solution Components and Systems

Name	Description
SharePoint	Microsoft's enterprise collaboration and document management system. SharePoint will be both the source and the target of the migration efforts.
SharePoint Web Front End (WFE)	One or more web servers that host the SharePoint Web Application.
Storage	The storage system(s)\location(s) to which the BLOBs will be externalized.
StoragePoint	The RBS BLOB externalization engine.
StoragePoint Storage Adapter	The configurable adapter for connecting to the specific Storage component.

## General Terms, Concepts and Acronyms

The items described below will appear throughout this document. It's important that these items are well understood.

Name	Definition
Migration Job	The operational information for a migration including the instructions for performing the job, the configuration, and any history information for a previous run.
Migration Source	The environment from which the content that is to be migrated will originate.
Migration Target	The destination environment for the content that is to be migrated.
BLOB	Binary Large Object.

RBS	Collectively, the technologies used within SharePoint to externalize content.
Storage Endpoint	The information that describes the configuration for a particular location where content will be externalized to, including the type of system, the storage adapter used, the connection and path information and any required active endpoint monitoring requirements.
Storage Profile	The configuration for defining the SharePoint scope of what should be externalized and how (using which Storage Endpoint).

## Database Attach Method

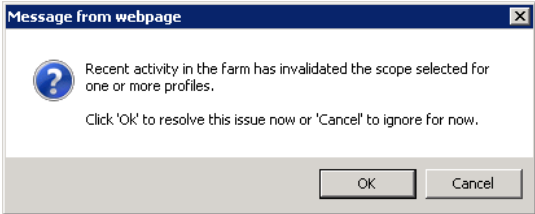
The Database Attach method of upgrading SharePoint involves creating a separate 2016 "upgrade" farm and then attaching the content databases from the 2013 farm into the 2016 farm.

## Upgrade Steps

The following table outlines the steps involved in upgrading SharePoint 2013 with StoragePoint to SharePoint/StoragePoint 2016 using the database attach method:

#	Step	Description
1	Ensure 2016 upgrade farm is established.	The 2016 farm should be provisioned and functioning (without any upgrade content). Any non-StoragePoint 3rd party solutions/features/web parts, etc. should be installed into the farm.
2	Document and disable source StoragePoint profile jobs.	<p>For each StoragePoint storage profile, make note of any timer jobs configured to run on a set schedule, as well as any archiving configurations. Also note the frequency of Content Migrator and Capacity Monitor on General Settings, if they apply to your configuration.</p> <p>For all StoragePoint Profiles that will be migrated, disable all jobs for those profiles.</p> <pre># Disable all StoragePoint timer jobs Get-SPTimerJob   Where-Object { \$_.Name -like "StoragePoint_*" }   Disable-SPTimerJob #PrintStoragePointJobs</pre>

		<p>If upgrading is abandoned, the following script can be used to re-enable timer jobs.</p> <pre># Enable all StoragePoint timer jobs Get-SPTimerJob   Where-Object { \$_.Name -like "StoragePoint_*" }   Enable-SPTimerJob #PrintStoragePointJobs</pre>
3	Backup/Restore StoragePoint database to new farm.	A backup of the StoragePoint database from the 2013 farm should be restored in the new 2016 farm. It is not recommended you share a copy of this database between the 2013 and 2016 farms.
4	Install StoragePoint for SharePoint 2016.	<p>StoragePoint for SharePoint 2016 should be installed in the 2016 upgrade farm. When prompted for the database name and location, ensure that the database copy established in step #3 is specified.</p> <p>*It is imperative that all StoragePoint jobs be double-checked as disabled on the migration target prior to continuing.</p>
5	Copy the blob store(s) for profiles that are being migrated. (OPTIONAL)	A copy of the blob stores for profiles being migrated needs to be made if the 2013 farm will remain functional after the upgrade. If the 2013 farm will retire the content databases that are being upgraded, then this step is not necessary.
5a	Update endpoint connection paths to point to blob store copy. (OPTIONAL)	The endpoints need to be edited to reflect the new blob store copy location established in step #6. This step may be skipped if step #5 was skipped.
6	Attach content database(s) from 2013 farm to 2016 farm.	The content database(s) from the 2013 farm should be attached into the 2016 farm. Please see the Microsoft documentation for more information.

7	<p>Re-link Web Application scoped profiles. (ONLY if using Web Application scoped profiles)</p>	<p>When using the database attach upgrade method, the web application IDs on the 2016 farm will not match the IDs on the 2013 farm. To fix the profile links, follow these steps on the 2016 upgrade farm:</p> <ol style="list-style-type: none"> <li>Go to the Storage Profiles screen in StoragePoint.</li> <li>A popup should alert you that some of the profiles have become unlinked from their Web Application:</li> </ol>  <ol style="list-style-type: none"> <li>Click OK on the popup to be taken to the Storage Profile Fixup screen.</li> <li>Click on the profile scope name under the Profile Scope column to manually fix the linkage. <b>*DO NOT*</b> click Fix Automatically as it will not work in this case.</li> <li>A warning will display about issues with manually fixing a profile scope - click the OK button.</li> <li>On the Select Web Application screen that pops up, select the Web Application on the 2016 farm that the profile should be associated with.</li> </ol>
8	<p>Re-establish any StoragePoint timer job definitions.</p>	<p>StoragePoint timer job schedules and settings will not be migrated to the 2016 farm automatically. These must be setup manually. Key timer jobs to check:</p> <ul style="list-style-type: none"> <li><i>Orphan BLOB Cleanup Job</i>. This job is usually run on a weekly or daily</li> </ul>

		<p>schedule. It must be scheduled for each profile. This timer job can be accessed from the Jobs link on the Profile page, under Advanced Configuration.</p> <ul style="list-style-type: none"> <li>• <i>BLOB Health Analysis Job.</i> This job is usually run on a weekly or daily schedule. It must be scheduled for each profile. This timer job can be accessed from the Jobs link on the Profile page, under Advanced Configuration.</li> <li>• <i>Externalize/Recall/Bulk Migrate.</i> These jobs are not normally run on a schedule but if your environment had them running on a schedule, be sure to reestablish them. This timer job can be accessed from the Jobs link on the Profile page, under Advanced Configuration.</li> <li>• <i>Archiving Rules and Jobs.</i> If any archiving configurations were setup in the 2013 farm, these must be reestablished on each profile.</li> <li>• <i>Content Migrator/Endpoint Capacity Monitor.</i> These jobs are scheduled by default during the installation for 5 minute run intervals. If you wish a more or less frequent schedule, you may modify it on the General Settings screen.</li> <li>• <i>Librarian Timer Job.</i> This is found under the Librarian settings.</li> </ul>
9	IISRESET and start/stop Timer Service	It is required that an IISRESET and stop/start of the SharePoint 2016 Timer service, SPTimmerV4, be done on each server in the farm after the upgrade is complete.



10	Test!	Thoroughly test each profile to ensure that it is storing and retrieving content appropriately. Contact StoragePoint support if you encounter any issues.
11	Take Source Content Offline	<p>Once the migration checks out, take the source content offline for each migrated profile:</p> <p><u>For web application-scoped profile(s):</u></p> <p>Remove Web Application(s) from Central Administration on source.</p> <p><u>For content database-scoped profile(s):</u></p> <p>Remove Content Database(s) from Central Administration on source.</p>

## Known Issues

### Error Testing Restored Databases

When testing (executing the PowerShell command Test-ContentDatabase) a restored content database in the SharePoint 2016 farm, an error message similar to this may be received:

Database [wss\_content\_21822\_EBS] has reference(s) to a missing feature: Id = [4822d9ca-c6b1-46ab-993a-89a9cfb4e4ac],  
Name = [StoragePoint], Description = [], Install Location = [StoragePoint].

It is because the externalization was not set to "No" before performing the content database backup on the SharePoint 2013 farm. It doesn't prevent the database from being mounted or upgraded.

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Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>

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- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product