

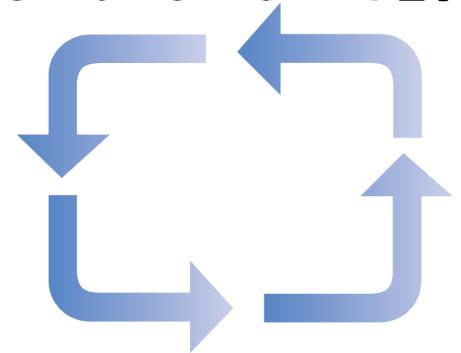
## Metalogix Content Migration and Upgrade for Microsoft SharePoint Server 2010

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Microsoft®  
**SharePoint® 2010**



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## INTRODUCTION

Microsoft's SharePoint products and technologies have brought robust enterprise content management and collaboration capabilities to an increasing number of organizations in recent years. The popularity of the previous versions, such as Windows SharePoint Services 2.0 and 3.0, SharePoint Portal Server 2003 and Microsoft Office SharePoint Server (MOSS) 2007, led many organizations to deploy SharePoint to various business units, frequently on a large scale.

Many organizations are now looking toward the SharePoint 2010 wave of products, including SharePoint Foundation 2010 and Microsoft SharePoint Server 2010, because of key functionality improvements in the software. These include the integration of the Office ribbon into SharePoint sites, a more scalable services architecture, document management improvements, enterprise taxonomy and many more.

Unfortunately, the migration path provided by Microsoft does not always address the needs of organizations. The out-of-box upgrade approaches available from Microsoft suffer from fairly significant limitations. These approaches:

- ▶ Do not support gradual upgrades
- ▶ Do not support granular migration
- ▶ Do not allow administrators to reorganize content during migration
- ▶ Have limited support for 32-bit source systems
- ▶ Do not support upgrades from SharePoint 2003 directly to SharePoint 2010

Because of these limitations, organizations looking to upgrade to SharePoint 2010 are faced with significant planning challenges that limit both proof of concept and full implementations. Organizations must also ensure that the upgrade approach they select will not jeopardize the content on the existing platform.

Fortunately, Metalogix has released Migration Manager for SharePoint 4.0, a solution to migrate content from legacy SharePoint 2003/2007 technologies directly to SharePoint 2010. Migration Manager for SharePoint allows organizations to take advantage of SharePoint's new features without putting their valuable content at risk. Migration Manager for SharePoint provides significant advantages over existing migration tools and techniques, allowing for flexible migration between SharePoint versions and farms, granular migration, PowerShell support, reorganization of sites, templates, and databases during the process, as well as many other enhanced capabilities. Unlike some content migration options, Migration Manager for SharePoint uses only SharePoint's fully supported APIs to migrate content, which ensures that it will not affect existing support agreements with Microsoft.

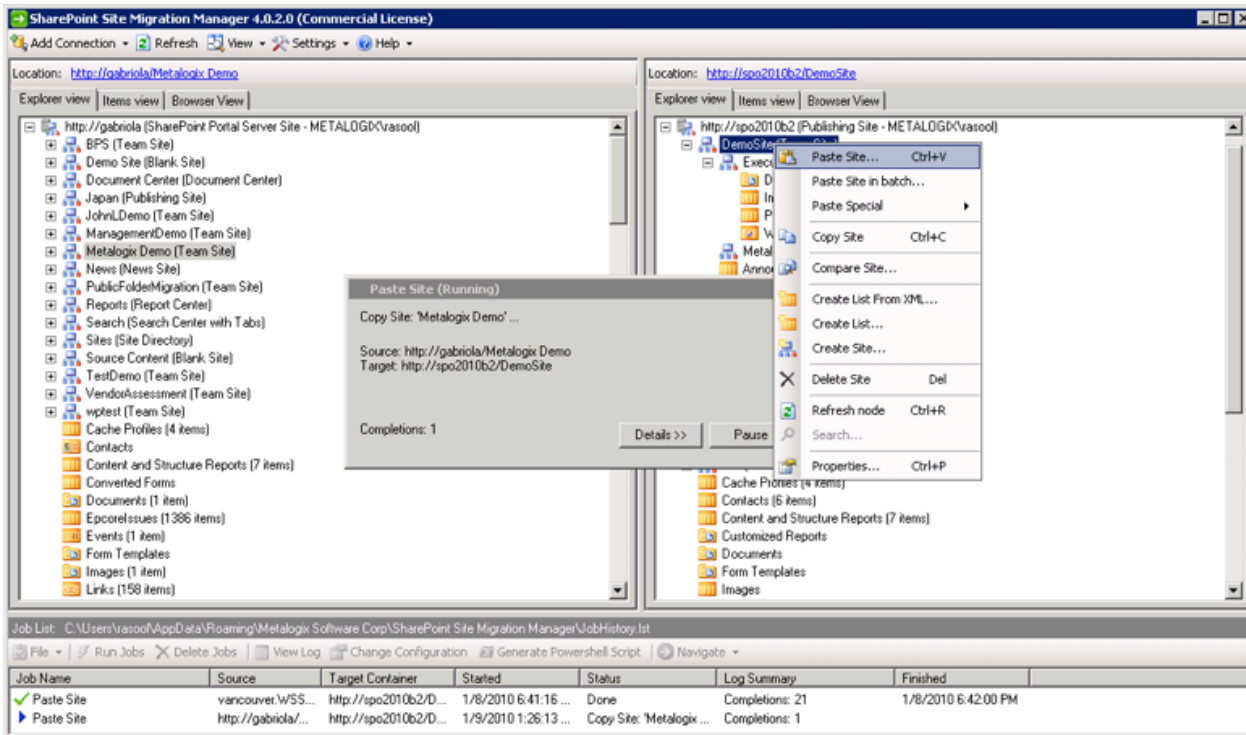


Figure 1 -Metalogix SharePoint Site Migration Manager 2010

This paper discusses both Microsoft’s out-of-box migration approaches and Metalogix Migration Manager for SharePoint. It describes common migration scenarios, and how those scenarios can be addressed using the different migration approaches. The document itself is particularly helpful for SharePoint administrators who are specifically tasked with migrating SharePoint content and can be used to better understand the capabilities of Migration Manager for SharePoint.

## WHY CHOOSE CONTENT MIGRATION OVER AN OUT-OF-BOX UPGRADE?

For organizations with a significant investment in an existing SharePoint 2007 environment, the answer is simple: Documents, lists and metadata and other vital intellectual property must be transferable to SharePoint 2010 for the project to be successful. In many cases, legacy SharePoint sites have been customized to tailor the environment to the organization’s needs. These changes can make it difficult to migrate content successfully. With Migration Manager for SharePoint, organizations have greater control over the migration process and can accommodate a wide variety of common—yet complex—migration scenarios.

## OUT-OF-BOX MIGRATION APPROACHES

Microsoft has created two unique out-of-box approaches for migrating from SharePoint 2007 to SharePoint 2010. This paper discusses each of these approaches and notes comparisons to the functionality of Migration Manager for SharePoint for each section.

## IN-PLACE UPGRADE

### OVERVIEW OF THE IN-PLACE UPGRADE APPROACH

The In-Place Upgrade approach—provided by Microsoft—is a method which upgrades an individual server in place with all its content to SharePoint 2010. The process upgrades all site content on the server at the same time.

An In-Place Upgrade includes the following high-level steps:

1. Bring the Farm to supported hardware and software levels, including 64-bit SQL and SharePoint, and WSS/MOSS Service Pack 2.
2. Run the Pre-Upgrade Check, included as a switch in the updated Service Pack 2 version of the STSADM tool.
3. Run SPDiag v2 and STSADM –o EnumAllWebs to further document settings and list potential problems.
4. Fix any issues uncovered by the Pre-Upgrade Check tool, SPDiag, and EnumAllWebs before migrating. This can include removing unsupported web parts, re-ghosting sites, and other fixes.
5. Install the SharePoint 2010 binaries on all servers in the farm.
6. Install any necessary SharePoint language packs.
7. Run the Configuration Wizard on a server running SharePoint Central Administration.
8. Run the Configuration Wizard on all remaining farm servers.
9. Monitor the farm upgrade from the Upgrade status page in SharePoint Central Administration.
10. Restart the WWW service on all web role servers.

### CHALLENGES WITH THE IN-PLACE UPGRADE APPROACH

The In-Place Upgrade approach has multiple major limitations. First, and most importantly, it is the riskiest migration strategy because there is no fallback strategy if issues arise. The other key challenges with this strategy are:

- ▶ The In-Place Upgrade process can only be used to migrate from WSS 3.0 to Microsoft Foundation 2010 or from MOSS 2007 to SharePoint Server 2010. No cross-platform V2V (Version to Version) or B2B (Build to Build) migrations are allowed. This also means that there is no way to migrate SharePoint 2003 content, including WSS 2.0 and SharePoint Portal Server 2003 directly to SharePoint 2010.
- ▶ The environment is down completely during the process.
- ▶ If the process is interrupted due to an issue such as a power failure or running out of disk space, the environment will likely be left in an unstable and unsupported state.
- ▶ The server must have minimum software requirements as follows:
  - ▶ Windows Server 2008 x64 or Windows Server 2008 R2 x64 Operating System
  - ▶ Database running on either SQL Server 2005 x64 SP3 w/CU3 or SQL Server 2008 x64 SP1 w/CU2. Note that it cannot be running on a 32-bit SQL Server.
- ▶ Any virtualized environment that uses Virtual Server cannot be upgraded as it only supports 32-bit platforms.

- ▶ The user account running the upgrade must have full local admin rights to all servers in the farm, including the SQL database server. This can go against the security best practice of isolating service accounts.
- ▶ If site functionality is undesirable after the upgrade, there is no way to return to the pre-upgrade state except to completely restore the farm.

## METALOGIX COMPARISON WITH THE IN-PLACE UPGRADE APPROACH

Migration Manager for SharePoint offers important advantages over the In-Place Upgrade approach. For example, the ability to migrate site content gradually, rather than all at once, is vital. Additionally, Migration Manager for SharePoint is not hindered by the same limitations, hardware requirements, and database considerations as the In-Place Upgrade. Indeed, flexibility is a key benefit of Migration Manager for SharePoint, as SharePoint administrators are not handcuffed by restrictions when migrating content.

Migration Manager for SharePoint migrates content using the native SharePoint API, which ensures that the data is written to the target SharePoint instance in a safe and supported fashion so that Microsoft support agreements are not violated. This approach allows for a highly flexible migration without any of the inherent risks involved with an In-Place Upgrade. Key differentiators between the In-Place Upgrade approach and migration using Migration Manager for SharePoint include the following:

- ▶ Uses a familiar, tree-based interface for migrating content, making it very easy to use.
- ▶ Allows for gradual or partial migrations, whereas the In-Place upgrade process is an all-or-nothing operation.
- ▶ Removes most of the risk associated with performing a migration as it does not overwrite data on the source side. The In-Place Upgrade process requires making direct changes to production data.
- ▶ Allows for migration to new hardware, software, and different farm configurations. The In-Place Upgrade process must be run on the existing SharePoint 2007 server.
- ▶ Can migrate the vast majority of sites that fail the PreUpgrade Check tool, while preserving security, metadata, document versions, and web part content.
- ▶ Re-organizes and re-templates content to support a new SharePoint 2010 taxonomy.
- ▶ Runs zero-downtime migrations.

## DATABASE ATTACH UPGRADE

### OVERVIEW OF THE DATABASE ATTACH PROCESS

For the vast majority of customers, the in-place upgrade process is too risky and limiting. To accommodate these organizations, Microsoft built a second, less risky migration approach that allows databases to be attached to a freshly built SharePoint 2010 farm and upgraded in the new environment. While this improves on the in-place option, the process still has several serious limitations that must be examined before implementing it as a migration strategy.

The Database Attach Migration process consists of the following high-level steps:

1. Run the Pre-Upgrade Check on the old farm, (included as a switch in the updated Service Pack 2 version of the STSADM tool).
2. Run SPDiag v2 and STSADM -o EnumAllWebs on the old farm to further document settings and list potential problems.
3. Fix any issues uncovered by the Pre-Upgrade Check tool, SPDiag, and EnumAllWebs before migrating. This can include removing unsupported web parts, re-ghosting sites, and other fixes.
4. Build the Farm to supported hardware and software levels, including 64-bit SQL and SharePoint, and WSS/MOSS Service Pack 2.
5. Create a SharePoint 2010 farm and install all customizations, features, and language packs required. Create a Web Application structure that matches the old farm and create a My Sites Host location.
6. Reset IIS on all servers before beginning the upgrade process.
7. Backup and Restore the original content databases to the new farm, but do not attach them.
8. Run the 'Test-spscontentdatabase' commandlet on each content database to check for issues that may be encountered.
9. Attach all content databases and validate the upgrade status of each from the Central Admin tool under the Upgrade Status page. Databases can be attached using the Upgrade-SPContentDatabase PowerShell commandlet as well.
10. Migrate individual content databases using either the Upgrade-SPContentDatabase PowerShell commandlet or the SharePoint Central Admin tool. Repeat for all remaining databases, including the My Sites databases.
11. Validate functionality in content databases. Note that the Visual Upgrade process won't by default upgrade the 'look and feel' to SharePoint 2010, including the Ribbon functionality, until you manually upgrade each site collection to the new look and feel. This allows you to preview the new visuals before committing them.

## CHALLENGES WITH THE DATABASE ATTACH PROCESS

While this approach is superior to the In-Place upgrade process, it has limitations as follows:

- ▶ Neither the In-Place option or DB Attach upgrade option allows for migration of content to SharePoint Online.
- ▶ Neither the In-Place option or DB Attach upgrade option allows for migration of SharePoint 2003 content (WSS 2.0 / SPS 2003) directly to SharePoint 2010.
- ▶ Granularity of migration is limited to individual content databases, which forces you to migrate everything within that content database at the same time. Since many environments have all or the majority of the content in a single content database, this effectively means that all content must be migrated for those environments.
- ▶ The upgrade process often leaves site collections with broken navigation elements, strange formatting, and malfunctioning web parts. The process itself, while designed to be flexible, cannot take into account all of the factors and variations in SharePoint 2007 sites, so migrated sites can often have a strange look and feel when the process is completed. This is particularly the case for 'Un-ghosted' sites.

- ▶ All settings in the new farm must match exactly the settings in the original farm, and must be manually configured. This includes Managed Paths, Web Applications, Email settings, Quota templates, and Alternate Access Mapping (AAM) Settings. If some settings are missing, the upgrade may fail.
- ▶ All customizations must be manually transferred, including language packs, custom site definitions, custom style sheets, custom web parts, and custom features, solutions and web services. If they are not transferred, the upgrade may fail.

## METALOGIX COMPARISON WITH THE DATABASE ATTACH PROCESS

Once again, the key difference between Migration Manager for SharePoint and other options, such as the Database Attach migration approach, has to do with the way data is migrated. Both Microsoft approaches use a process in which the data are directly modified at one time, which doesn't support side-by-side migrations. Migration Manager for SharePoint, however, assumes that a new farm, on new equipment, is set up and configured for the migrated content, and that a non-invasive process of reading the content and copying it to the new farm is accomplished. At the same time, links within the new server will be updated once the content is migrated.

While the Database Attach approach presents less risk than an In-Place Upgrade, it still suffers from serious limitations and often will not work for complex content or large farms. In addition to benefits already mentioned, the following list details of the advantages Migration Manager for SharePoint offers over the Database Attach process:

- ▶ Migration Manager for SharePoint can migrate content gradually and granularly, rather than requiring an entire content database to be migrated at one time, as the Database Attach approach requires.
- ▶ Content owners can use Migration Manager for SharePoint to migrate their own sites as long as they have rights to the content itself. This allows the workload and responsibility of content migration to be distributed to individual departments, or stakeholders, rather than placing it entirely on the IT administrator.
- ▶ Migration Manager for SharePoint allows for migration to new 64-bit servers, new service packs, new hardware, new OSs, and/or new database levels -- all without touching the existing SharePoint 2007 farm.
- ▶ Migration Manager for SharePoint gives content owners and administrators the ability to reorganize their content, site collection structure, and content database layout, all of which must remain the same with the Database Attach migration process.
- ▶ Sites can be migrated using Migration Manager for SharePoint from a remote machine or the administrator's desktop, while the Database Attach migration process must be run directly on the server.
- ▶ SharePoint content can be re-templated while it is migrated when using Migration Manager for SharePoint, something that is not possible with the Database Attach migration process.
- ▶ Migration Manager for SharePoint does not require running any pre-scan tool, such as that used with the Database Attach process.

## **BENEFITS OF CONTENT MIGRATION WITH METALOGIX**

### **SUPPORT FOR GRADUAL / GRANULAR MIGRATIONS AND PILOTS**

One highly useful feature in Migration Manager for SharePoint is its ability to perform granular migrations of content. Content owners can decide which portions of a site collection get migrated first, and then migrate the content in waves, rather than en masse. These capabilities allow organizations to perform phased pilots or Proof of Concept migrations, which reduce the risk associated with the project.

### **NO SERVICE PACK OR HARDWARE PREREQUISITES**

Metalogix does not have any Service Pack or Hardware prerequisites for the content source. SharePoint administrators can migrate from any SharePoint 2003 or SharePoint 2007 version directly to SharePoint 2010, and can move between different SharePoint editions without a problem, such as migrating from Windows SharePoint Services 2.0 to SharePoint Server 2010. Migration Manager for SharePoint also allows organizations to migrate from 32-bit hardware to 64-bit hardware, and provides for moving content between different versions of SQL Server.

### **ALLOW CONTENT OWNERS TO MIGRATE (MIGRATE BASED ON PERMISSIONS)**

A key feature of Migration Manager for SharePoint is the ability to delegate the migration process to content owners, giving them the flexibility to choose when and how content gets migrated. Because SSMM uses the standard SharePoint API to move content from one location to another, the user simply needs to have rights to the content to move it. In many organizations, the content owners may have unique schedules or may want to be in control of the process. This process provides that flexibility and lets them fit content migration into their own schedules as IT empowers key content owners or power users to facilitate the migration based on business requirements. A distributed approach also has the benefit of reducing the workload for IT staff, and helps to ensure buy-in from content owners on the new SharePoint 2010 system.

### **POWERSHELL SUPPORT**

All Migration Manager for SharePoint functionality has been incorporated into a comprehensive list of PowerShell commandlets, so it can be scripted and automated. The PowerShell support dovetails with SharePoint 2010's integrated PowerShell support, providing fine-grained control over all aspects of the migration project.

The PowerShell support in Migration Manager for SharePoint is highly customizable, and can be used to auto-generate a PowerShell script from a job created from within the Migration Manager for SharePoint interface. Once a job is created and the PowerShell script has been generated, you can customize the script to accommodate any custom migration requirements. This allows administrators to scale Migration Manager for SharePoint to a specific migration task more easily.

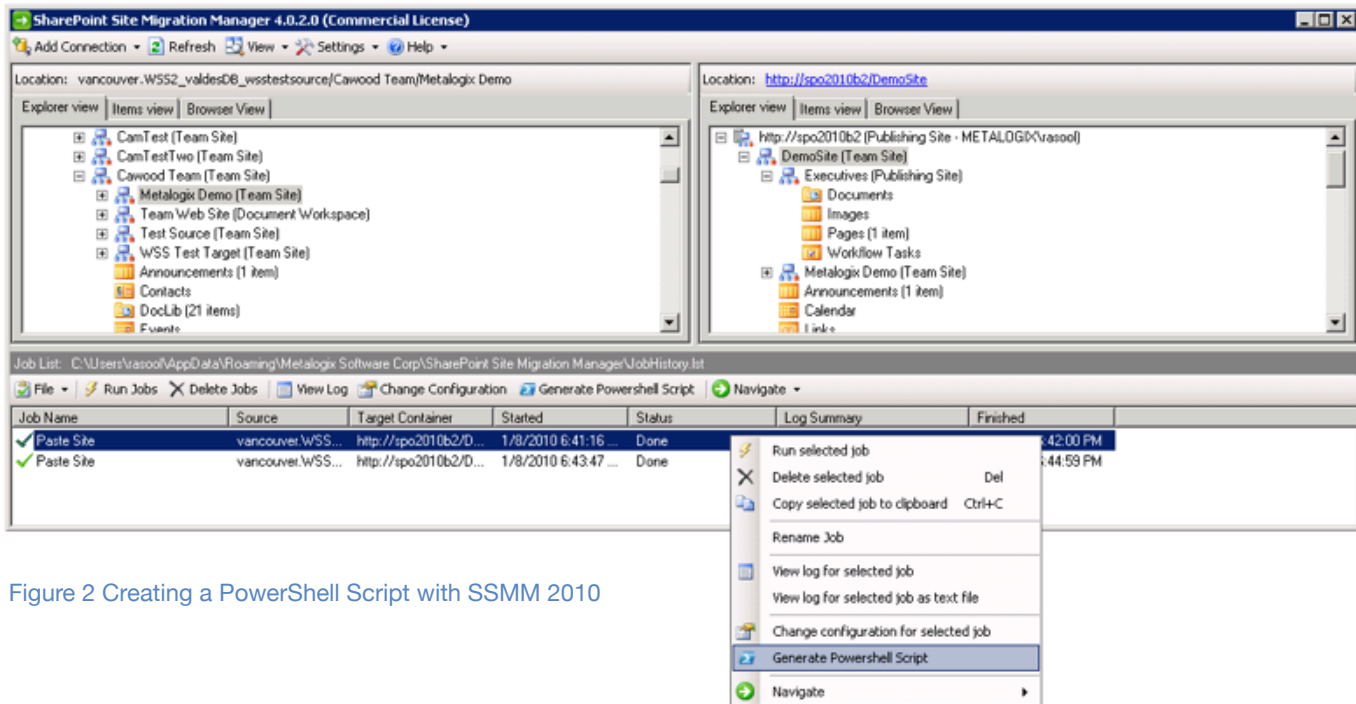


Figure 2 Creating a PowerShell Script with SSMM 2010

## SUPPORT FOR MIGRATION TO BPOS

Migration Manager for SharePoint fully supports migration scenarios where existing content is migrated to SharePoint Online, part of the Business Productivity Online Suite (BPOS) or any hosted SharePoint environment. This allows organizations to move SharePoint hardware and support into the ‘cloud’ quickly and easily, eliminating the need to support local SharePoint hardware and infrastructure. In addition, Migration Manager for SharePoint supports ‘cloud-to-cloud’ migrations, so organizations can move content from one hosted provider to another.

## ABILITY TO MIGRATE FROM OFFLINE SHAREPOINT DATABASES OR BACKUP FILES

Migration Manager for SharePoint provides native capabilities to migrate directly from backup files to live sites, eliminating the need to build temporary farms and attach live databases for a migration. Simply point to an offline database or even a backup file to extract the data directly and merge it into a live SharePoint 2010 environment. This accommodates scenarios such as secured environments where source and destination server are isolated from each other.

## CONTENT FILTERING SYNCHRONIZATION/INCREMENTAL MIGRATION

The user interface of the solution allows content owners and administrators to define what type of content is migrated, and to decide whether to filter out specific types of content or sites. Site admins can restrict certain types of files, list items, or other content to be excluded, or migrated across. In some cases, it may make more sense to retire old, unused site content with the old platform. Migration Manager for SharePoint gives you the flexibility to decide what gets migrated and what stays behind. The content filtering options can then be easily customized using Migration Manager for SharePoint PowerShell support. For example, you could use the PowerShell example generated by a simple list copy and wrap it in conditional logic to determine that only records created by a specific individual should be copied.

## REORGANIZE OR RE-TEMPLATE SITES DURING MIGRATION

Site structure can be redefined while migrating, Sites and Site collections can be split into multiple targets, sites can be re-templated, and administrators and content owners can define what content is migrated. You can make visual and navigational changes to the content, so a site architect can reorganize and restructure the content and implement the Enterprise Taxonomy more easily.

## CONVERT SHAREPOINT 2007 WIKI SITES TO SHAREPOINT 2010 ENTERPRISE WIKI SITES

No native way exists to convert a Wiki site created in SharePoint 2007 directly to an Enterprise SharePoint 2010 Wiki Site using the supported Microsoft option. It is, however, supported with SharePoint Site Migration Manager. As SharePoint 2007 Wiki Sites are deprecated in SharePoint 2010, this key functionality in Migration Manager for SharePoint is highly useful.

## MANAGE SITE COLLECTIONS AND CONTENT DATABASES

Many SharePoint 2007 administrators built their farms with a few content databases (in some case only one), which limits the farm's scalability, performance, and recoverability. Metalogix Migration Manager for SharePoint lets that content be restructured and reorganized for a best-practice of multiple-site collections split among multiple content databases, without changing any of the existing sites' logical structure.

## SERVER CONSOLIDATION

Because Migration Manager for SharePoint can pull and push data from multiple sources and targets, it allows organizations to collapse multiple SharePoint 2003 or 2007 farms into a single SharePoint 2010 farm. Organizations are often surprised to discover how many instances of SharePoint exist across multiple departments. Often, individual team sites were created on desktops and rogue servers, while content was decentralized across the organization. This content can be brought back under centralized control using Migration Manager for SharePoint, and multiple SharePoint sites, and any 2.0 or 3.0 version can be consolidated onto a single managed farm. In addition, consistency of look and feel can be enforced across the migrated content with the ability of Migration Manager for SharePoint to re-template the content.

Finally, because a new SharePoint 2010 farm is created for the migration, new hardware, software versions, 64-bit architecture, and newer database servers can be provisioned, all with best-practice architecture and without designing around the flaws of the previous SharePoint version.

## SERVER VIRTUALIZATION

Server virtualization is a hot topic in today's business data centers. Many organizations are opting to virtualize the majority of their server infrastructure, including SharePoint servers. The fact that Migration Manager for SharePoint is target-agnostic gives you the flexibility to build the new SharePoint 2010 farm on virtual machines if required. This applies to virtualization software from any one of the common virtualization platforms in use today.

## ONGOING VALUE OF SHAREPOINT SITE MIGRATION MANAGER

Metalogix Migration Manager for SharePoint is not simply a migration tool. A number of the tool's features can be used to manage existing SharePoint lists and sites, which makes Migration Manager for SharePoint highly useful after a migration or for organizations that simply need to manage their existing SharePoint 2010 investment.

### SITE STRUCTURE MANAGEMENT

Access to the Migration Manager for SharePoint client allows SharePoint content owners to easily reorganize the SharePoint server if structural mistakes are made. Instead of living with an inefficient structure, they can rectify it quickly. The following list details several of the more popular management features in Migration Manager for SharePoint:

#### *LIST SPLITTING*

If your lists are growing too large, or you simply want to organize list items more effectively, you can use Migration Manager for SharePoint to split lists across multiple SharePoint sites, site collections, or farms. To split a list, use Migration Manager for SharePoint to create new lists and then copy the items from the original list to many locations.

#### *LIST MERGING*

If two lists have the same name, merging the lists is as simple as copying one list into another and choosing the Append Items to List option. If the lists have different names, you can easily combine them using the Item Copy view.

#### *RENAME AND REORGANIZE SITES, LISTS AND LIBRARIES*

Use this feature to move to better naming conventions by simply renaming the lists during the copy operation.

#### *REORGANIZE FOLDER CONTENT*

With the copy folder option, you can restructure a document library to use folders or collapse folders into a single list.

#### *SPLIT SITES ACROSS MULTIPLE CONTENT DATABASES*

You can re-factor your content to manage distribution to larger (or smaller) sets of content databases. If your structure has gotten out of hand, this will return you to a performance-oriented architecture.

#### *MERGE SITES INTO A SINGLE SITE COLLECTION*

Using Migration Manager for SharePoint, you can simply copy sites from one site collection to another, including moving MySites from one web application to another. This process is as simple as copying and pasting.

#### *COMPARE SITES, LISTS AND LIBRARIES*

With the powerful differential reporting capabilities of Migration Manager for SharePoint, you can easily compare content between a live site and QA, or between a backup file and the live SharePoint site, to instantly see what has been added, modified or deleted.

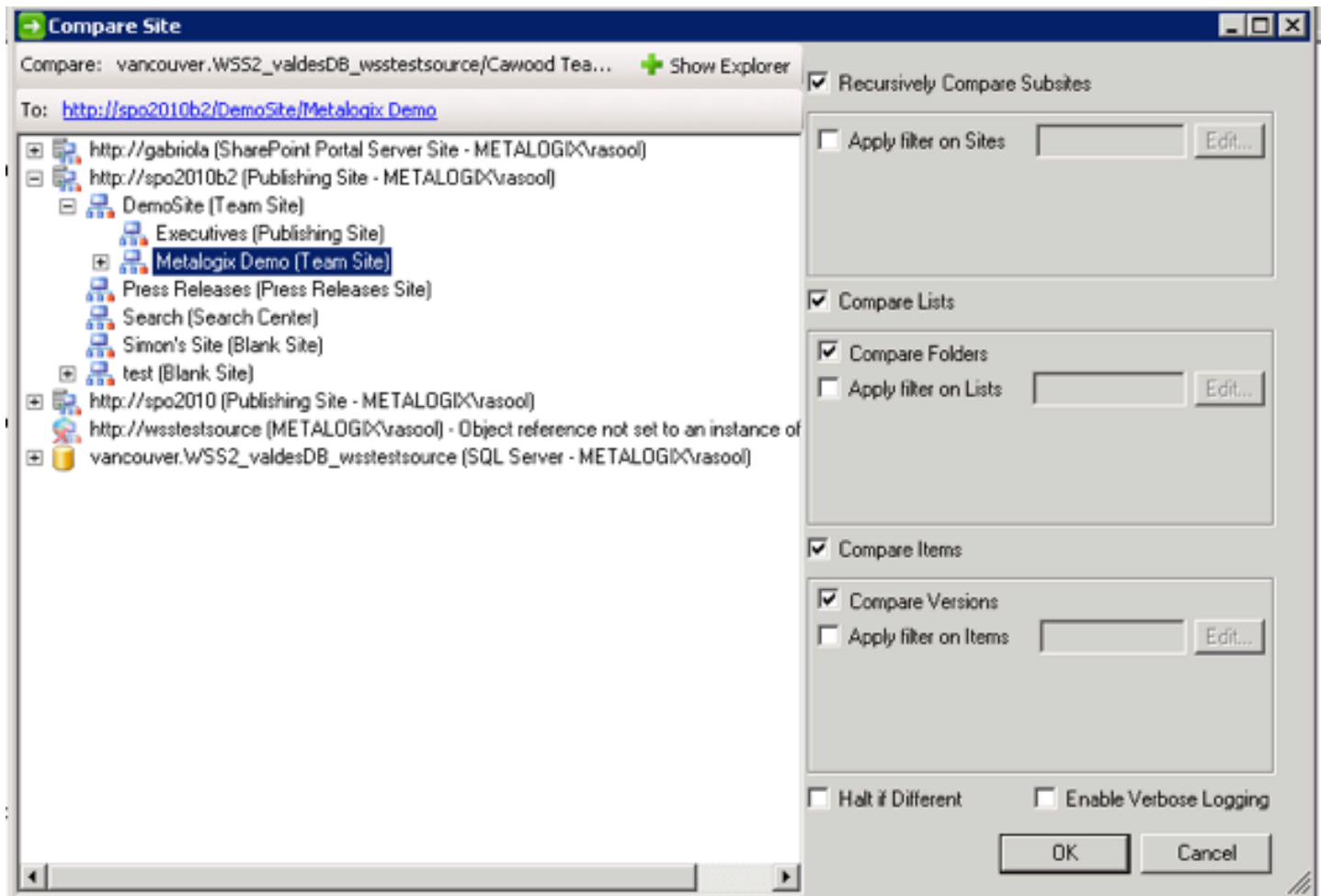


Figure 3 SSMM2010 Compare Site Dialog

## INCREMENTAL UPDATES

A company may want to continue to roll out sites, lists, or other sections of their SharePoint server over time. Migration Manager for SharePoint allows these organizations to perform incremental copies and manage these rollouts. It also filters items by date, so only changes made in a certain period of time can be copied for rollout or backup purposes.

Table 1: Upgrade Method Comparison

	In-Place Upgrade	Database Attach Upgrade	Migration Manager for SharePoint
Pre-upgrade Check Tools and Remediation	•	•	•
32-bit to 64-bit Migrations		•	•
Migrate to New 2010 Farm / No Downtime		•	•
V2V Migrations (2007-2010)		•	•
2003-2010 Migrations			•
Restructuring of Site Collections During Migration			•
Re-templating of site collections during migration			•
Migrate from offline backup files		•	•
Gradual/Granular Migration / Pilot			•
No Service Pack or Hardware Requirements			•
Allow content owners to migrate			•
Migrate to SharePoint Online			•

## METALOGIX VISION – MIGRATE, MANAGE, ARCHIVE AND RESTORE SHAREPOINT CONTENT

In addition to the capabilities of Migration Manager for SharePoint, you can leverage other Metalogix tools to migrate from a wide variety of data sources. Metalogix offers companion migration solutions that support Exchange Public Folders, file shares, EMC/Documentum, eRoom, Oracle Content Server (Stellent) as well as blogs, wikis, websites and other CMS systems. Organizations with disparate content sources can simplify their migration projects and reduce training requirements by leveraging consistent, proven, easy to use and compliant migration solutions from Metalogix.

Metalogix also provides SharePoint administrators with tools to manage, archive, and recover SharePoint content. This includes administration tools that manage permissions, content and users; identify and remove dead accounts; and archive content from multiple sources. These solutions supplement the ability of Migration Manager for SharePoint to provide for complete lifecycle management of SharePoint and SharePoint content.

## CONCLUSION

Microsoft provides two unique migration options for moving SharePoint content from SharePoint 2007 to SharePoint 2010, each of which has its various advantages and disadvantages as outlined in this document. Metalogix Migration Manager for SharePoint is a solution that offers a fully supported and much more flexible alternative to these approaches.

Migration Manager for SharePoint provides immediate value to SharePoint administrators by giving them more flexibility in migration approaches, with features such gradual migration support, no service pack or hardware prerequisites, and the ability for content owners to control the migration and the capacity to define at a granular level when specific content is migrated. In addition, Migration Manager for SharePoint provides for ongoing value as a management tool for SharePoint sites, allowing for structural changes to be easily made to SharePoint sites and lists. These features have positioned Migration Manager for SharePoint as a valuable tool not just for SharePoint migrations but also for the ongoing site maintenance often required by content owners and SharePoint Site Administrators.

## ABOUT THE AUTHOR

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Michael Noel (MCITP) is an internationally recognized technology expert, bestselling author, and well known public speaker on a broad range of IT topics. He has authored multiple major industry books that have been translated into over a dozen languages worldwide. Significant titles include SharePoint 2010 Unleashed, Exchange Server 2010 Unleashed, Windows Server 2008 R2 Unleashed, ISA Server 2006 Unleashed, and many more. Currently a partner at Convergent Computing ([www.cco.com](http://www.cco.com)) in the San Francisco Bay Area, Michael's writings and extensive public speaking experience across six continents leverage his real-world expertise helping organizations realize business value from Information Technology infrastructure.

## ABOUT METALOGIX

Metalogix is the trusted provider of content lifecycle management solutions for Microsoft SharePoint, Exchange and Cloud platforms. We deliver high-performance solutions to scale and cost-effectively manage, migrate, store, archive and protect enterprise content.

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### METALOGIX

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