Quesť

Metalogix[®] Content Matrix 9.7 **Public Folder Edition**



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Introduction

Whether you are migrating Exchange Public Folders or PST files to SharePoint, Metalogix Content Matrix Console - Public Folder Edition is an easy to use, convenient way of getting your data into SharePoint. With its familiar copy-and-paste style user interface, you can quickly migrate your Public Folder and PST file content into SharePoint, while preserving your valuable metadata.

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Supported Source Systems

The following source systems are supported in Metalogix Content Matrix Console:

- Exchange Public Folders (from Exchange 2000, 2003, 2007, and 2010)
- Exchange PST Files

Supported Target Systems

The following target systems are supported in Metalogix Content Matrix Console:

- SharePoint 2013 (Foundation and Server)
- SharePoint 2016
- SharePoint 2019
- SharePoint Server Subscription Edition
- Microsoft Office 365

Key Features

There are many advantages to using Metalogix Content Matrix Console, including the following:

Ease of use

Similar to the Windows File Explorer, Metalogix Content Matrix Console has a familiar, tree-based copy-and-paste style user interface.

Valuable data retention

All version chains, metadata, user-edit information, and most views can be preserved.

Multiple site connections

Connect to multiple SharePoint sites, across any number of servers, for easy consolidation or distribution of your SharePoint data.

Working remotely

Do all the heavy lifting for your SharePoint migration from the convenience of your own machine. Metalogix Content Matrix Console connects to any SharePoint site that you can access with your browser, even those outside your organization's intranet.

Batch work

Multiple list migration operations can be batched up for convenience, and re-run at any time. Run your migrations at night and view the results/logs in the morning.

Compliance

All migration activity is done through the supported SharePoint APIs. There are no unsupported, direct writes to the SharePoint database.

PowerShell functionality

PowerShell functionality is incorporated into the Metalogix Content Matrix User Interface (UI), and any action in the UI can also be performed with PowerShell. Cmdlets are also included, so scripts can be manually created and run.

Product Announcements Splash Screen

When you launch the Metalogix Content Matrix Console, a splash screen displays with the latest Metalogix Content Matrix product announcements. If you have internet access, you will receive announcements directly from the Quest website. If you do not have internet access, the splash screen displays offline text included with your Metalogix Content Matrix installation.

You have the option of preventing this screen from displaying in the future by clicking the **Do not show this screen again** box. (If you select this option, display of the splash screen will resume the next time you perform a Metalogix Content Matrix Console installation or upgrade.)

Automatic Updates

Metalogix Content Matrix Console can automatically check online to see if a more recent version of the product is available for download. This takes place when Metalogix Content Matrix starts. To help ensure that you are taking advantage of the latest features and fixes, it provides a direct line to download and installation of new Metalogix Content Matrix builds.

Automatic Upgrades requires access to the internet. While Metalogix Content Matrix will check every time it is opened, it is also possible to run a manual check. To do so, go to the main toolbar and choose **Help > Check for Updates**.

If you are already running the latest build, the **Check for Updates** dialog will open and you will be informed that you already have the latest version installed. If there is a new build available for download, the **Download and Install Update** dialog will open.

Running the Automatic Update

When Metalogix Content Matrix checks for updates and finds a newer build available for download, users will be prompted to update with the **Download and Install Update** dialog.

Downlo	oad and Install Update 🧾	٢)		
(New version is available for download.			
	To download the latest version, please click on Download button.			
	If you access the Internet via a proxy server, enter the required information here.			
	Download progress:	_		
	Download Close			

1. Click [Download] to directly download the latest build to your current machine.

The progress of the download is displayed in the **Download progress** bar.

NOTE: If you are accessing the internet through a proxy server, the here link can be clicked on to open the <u>proxy configuration</u> dialog.

2. Once the download is complete, click **[OK]** to continue.

Introduction

The Download and Install Update dialog will still be open, but the Download button will be replaced with the **[Install]** button.

Downlo	ad and Install Update 🗾				
(New version is available for download.				
	To download the latest version, please click on Download button.				
	If you access the Internet via a proxy server, enter the required information here.				
	Download progress: 30413 of 30413 KB downloaded (100%) Automatic upgrade				
	Install Close				

You will have the option of installing the new build directly from here by clicking the **[Install]** button. This will open the Installation guide. If you are continuing the installation process directly from this dialog, then the Metalogix Content Matrix Console will close itself down, so the install process can be run.

NOTE: When running the automatic upgrade process, only the latest build of the Metalogix Content Matrix Console will be updated. Any installations of the Metalogix Extensions Web Service will have to be updated manually. See the *Metalogix Content Matrix Advanced Install Guide* for details.

Entering the License Key

You will be prompted to input an Activation License Key when launching the Content Matrix Console:

• for the first time after it has been installed if an existing license is not detected

OR

• after your license has expired.

NOTE: If users are not required to be a local administrators on the machine where Content Matrix is installed, every user who launches a Console needs to enter a license key. If users are required to be a local administrator, only the first user who launches a Console needs to enter a license key.

IMPORTANT: During installation, all Editions of the Console (SharePoint, eRoom, and Public Folder) are installed. However, the license will only be activated for Editions that are covered by it. If an Edition is not covered by the license, the message *Invalid license: License key is not valid for the given product.* will display in the Activate License Key dialog.

If you are performing an online activation, you can also do it silently, using Powershell.

To enter a license key:

1. In the Activate License Key dialog, select I have a license key, and enter the license key provided by Quest (the key can be copied and pasted into the provided space).

2

R	Activate License Key	
Q,	Enter license key and select the activation method	
E	Enter license key:	l
(I have a license key	
(\bigcirc I am updating from an older version and have an old-style key	
(Choose activation mode:	l
(Online activation (requires online internet connection) <u>Set proxy</u>	l
(Offline activation	l
		l
	Next > Close	

NOTE: If you are updating from a Metalogix Content Matrix installation **older than version 6**, select the **I am updating from an older version and have an old-style key** option, and enter the key in the provided space (or paste into the first field from your clipboard).

2. Select the appropriate activation method.

NOTE: Most systems can use the Online activation method **as long as** the system has internet access. If you are unable to use the online activation method due to security settings or lack of internet access, the Offline activation option can be used.

Online Activation

NOTE: In order to activate your license, the following URL must be unblocked by your firewall: <u>https://license.metalogix.com</u>

- 1. After entering the license key, select **Online activation**.
- 2. If you need to configure proxy settings:
 - Click the Set proxy... link.
 - Follow the procedure for <u>Configuring Proxy Settings</u>.
- 3. Click [Next].

Metalogix Content Matrix will contact the licensing server and attempt to authenticate the license key, after which, on successful activation, a 'Congratulations!' message will be returned, and the license key will be active and in use.

4. Click [Finish] to complete the process.

Offline Activation

NOTE: The offline activation option is generally used in cases where you cannot use the online activation due to security settings or lack of internet access. This option will still require some internet access, but allows for the authentication to be done from another machine that is not as restricted by security or has a connection to the internet.

- 1. Select Offline activation.
- 2. Click [Next].

A Generate Activation Request dialog displays with a different key. This key can be copied from the window, or the Save to file option can be used to save the key into a text file (in case it needs to be copied to another machine).

3. Copy the Activation URL (listed under the Activation Request) to a web browser that has internet access.

Alternately if the system the Metalogix Content Matrix Console is on does have internet access through a Web browser, click Go to automatically open a web browser to this URL.

- 4. On a machine that has internet access, use the Activation URL to navigate to the Offline Activation page.
- 5. Either:
 - Enter the key into the Activation data text box. OR
 - If the key was saved to a file, select Browse and navigate to the file.
- 6. Click [Activate].

Upon successful activation, a new key displays in the text box.

- 7. Do one of the following:
 - To save the key as a DAT file, click [Download file].

OR

- To copy the key to the clipboard (if the license will be activated on the same machine), click [Copy text].
- 8. Click [OK] to continue.
- 9. Return to the Activate License dialog.
- 10. If the Generate Activation Request window is still active, click [Next]. to the Enter your Activation Response window.
- 11. Use one of the following options:
 - If you copied the key to the clipboard on the same machine, paste it into the window.
 - If you saved the key to a DAT file, navigate to, and select the DAT file.
- 12. Click [Next]. The license key will be active and in use.

13. Click [Finish] to complete the process.

Checking the Current Content Matrix Console License

To check the status of the license key in use, open the About dialog. Here, information such as the license type, expiration date (if any), size limitations for migrations, and how much data has already been migrated can be seen.

NOTE: If an offline license is used, the <u>offline activation process</u> will need to be used to do this update instead, unless the system that the Metalogix Content Matrix Console is installed on has internet access.

To check the current license:

- 1. In the Content Matrix Console ribbon toolbar, choose Help > About.
- 2. In the dialog that opens, click **[Refresh]**. This will initiate a refresh of this data from the licensing servers and update the information.

Selecting the SQL Database You Want to Connect to

The first time you launch the Content Matrix Console you will be prompted to select the SQL database that you want to connect to. Options are:

- Connect to Job Database (SQL Server)*
 - * NOTE: The option Connect to Distributed Database (SQL Server) is disabled as it is only valid for SharePoint Edition.
- Connect to New Job List (SQL Server Compact 4.0* Required)
- Connect to Existing Job List (SQL Server Compact 4.0* Required)

NOTE: The use of SQL CE in a production environment is discouraged because of the following limitations:

- It uses a single .lst file that is less robust and reliable and may be corrupted after the database reaches 4 GB.
- Data compression is not supported.
- Support for large objects is limited.
- Microsoft support for SQL CE has ended.

If you still want to use SQL CE, SQL Server Compact 4.0 must already be installed on your machine. You can download it from <u>Microsoft</u>, install it, then restart the Console.

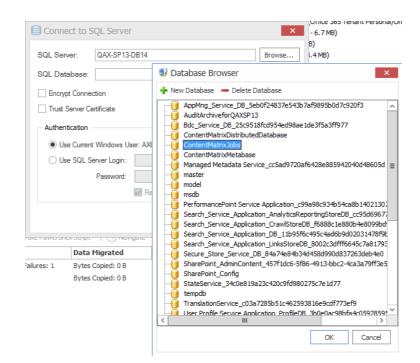
NOTE: If you have upgraded from version 9.3 or earlier and are using SQL CE (.lst) files but SQL Server Compact is not installed, a pop-up will display. You will be given the option of either installing SQL Server Compact 4.0 or selecting a different Job database.

To create or connect to a full SQL database:

IMPORTANT: If you are connecting to an Azure SQL database, the database must already have been created via Azure Portal. You cannot create or delete an Azure SQL database from within Content Matrix.

- 1. From the Please connect to a job database dialog, select Connect to Job Database (SQL Server).
- 2. Complete the Connect to SQL Server dialog:
 - If you are connecting to an on premises SQL database, create (using the New Database option) or select the database you want to use.

17



 If you are connecting to an Azure SQL database, select the database that has been created in Azure Portal for use by Content Matrix. (Note that the New Database and Delete Database options will be disabled.)

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	🛃 Database Browser	x
	🖷 New Database 🛛 🗕 Delete Database	
	ContentDatabase ContentDB2013	
1	i master	

3. If you want to use an encrypted connection to the database, check the Encrypt Connection box.

NOTE: If the certificate used for encryption is not <u>trusted</u>, you will also need to check the **Trust Server Certificate** box.

- 4. Select an Authentication method for connecting to SQL server.:
 - Use Current Windows User

OR

• Use SQL Server Login

NOTE: Currently, Use SQL Server login is the only valid option for an Azure SQL server.

5. Click [OK].

Content Matrix Console End User Interface

The Metalogix Content Matrix Console User Interface (UI) is simple and easy to use. There are three high level components to the configurable interface:

- **Explorer View 1** At minimum, the interface will always display one Explorer Control, providing multiple ways to view the content for any active connections to source and target environments.
- **Explorer View 2** A second explorer control can be displayed simultaneously. Having two explorers visible allows the user to simultaneously view two different parts of the connected content set. For example, in many cases it makes sense to show a migration source on the left in Explorer Control 1, and a SharePoint migration target on the right in Explorer Control 2.
- Job List Beneath the Explorer Control windows is a Job list that shows the history of migration jobs and other tasks that have been run or batched in Content Matrix.

More	e inforr	natic	on on t	these	UI components is provided in the topics that follow.
	Connection				
	Connection	View	Settings	Help	
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Connection Vie	w Settings	Help										^
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Paste Exchange Folder	Redemption://w	https://metalogixsof	5/24/2017 4:51:42 PM	Done	C	ompletions: 1		Data Migrated: 0 B	5/24/2017 4:51:44 PM	00:00:01	WEARTECHCOR	WEAR
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Main (Ribbon) Toolbar

At the top of the Metalogix Content Matrix Console is a ribbon toolbar allowing access to the following five menu group settings:

Connection

. .

...

• View

- Settings
- Help

The Metalogix Content Matrix Console menu ribbon can be expanded or minimized to fit the user's needs. When expanded, a set of options will be available depending on the selected menu heading.

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Show 2nd Explorer	Show Jobs List	Show Checkboxes	Show Internal List Names	Show Web URLs	
	Views	5	View Op	tions	

When minimized, options will only be visible when a menu heading is selected. Otherwise, only menu headings will show. The minimize and expand options can also be accessed by right-clicking an option in the ribbon itself. This opens a context (right-click) menu where the **Minimize the Ribbon** option can be selected or deselected.

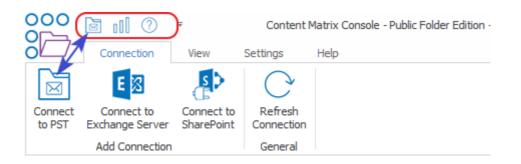
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Explo	orer View Brow	ser View]		Explorer View Browser View

Quick Access Toolbar

The **Quick Access Toolbar** can be accessed above the ribbon. The Quick Access Toolbar can also be moved just below the ribbon by selecting the drop down menu (on the top left-hand side) and choosing **Show Quick Access Toolbar Below the Ribbon**, or it can be placed back above the ribbon by choosing **Show Quick Access Toolbar Above the Ribbon**. Any option that is available under one of the menu group headings can have a shortcut for the option placed into the Quick Access Toolbar. This can be done by right-clicking on the option in the ribbon, and choosing **Add to Quick Access Toolbar**.

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	Help Topics	About	Check for Updates	Update License	Metalogix Academy	Suppor Forum	Add to Qui	ick Access To	oolbar	
	Help		Upda	ate			Show Quic	k Access To	olbar Below tł	ne Ribbon 💡
	Location: http://qa2013farm4:38876/sites/AuditLogTwo						Minimize t	he Ribbon		

Shortcuts can also be removed from the Quick Access Toolbar either by selecting the option within the ribbon and opening the context (right-click) menu, or by selecting the shortcut option itself, opening the context (right-click) menu, and choosing **Remove from Quick Access Toolbar**.



Explorer Control View Tabs

The Metalogix Content Matrix Console user interface uses an Explorer Control style window which allows you to navigate, view, and select the desired content for migration. The Explorer Control window is broken up into three separate tab options, each of which contains its own set of options for viewing content and data. They are:

- Explorer View Tab
- Items View Tab
- Browser View Tab

Explorer View Tab

The Explorer view tab allows you to navigate through your various connections in a tree view. You can navigate to and selected a desired SharePoint site collect, site, list/document library or sub-folder or a under a specific connection or navigate to a specific Exchange Server or PST file.

There are a set of filtering options that are available in this tab, as well as a set of ordering options. This allows you to display, sort, and filter all of your connections as desired.

Explorer View	Items View	Browser View		
Filter:		Y 🛰 - 🗞	 J= Sort By: Default 	t v
□ 品	letalogix Demo			^
	🖥 Company Mee	ting (Basic Meeting V	Vorkspace)	
	🕒 Agenda (3	items)		
	Attendees	(4 items)		
Ξ.	Document	Library (13 items)		
	1			
	📄 Demo	Documents		
	🔶 Objectives	s (3 items)		
÷	Workspace	e Pages (1 item)		
E 6	a Document Wo	rkspace (Document \	Vorkspace)	- 10
	Announcemen	ts (3 items)		
	Calendar			
1	Contacts			
	Custom List Cr	eated in SharePoint		
	Custom List Ne	ew		\sim
<				>

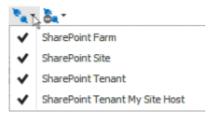
There are three primary Filtering options: Text Filter, Connections Filter, and Status Filter.

• **Text Filter**: For example, if you only want to view connections that contain "2010" in the URL, you can enter "2010" in the Filter text box, and click the Filter button to the right of the text value. The filter will then be applied to all connections in that Explorer View tab, and only connections that contain a "2010" value will be displayed.

Explorer View		
Filter: 2010	📉 🏹 🔪 + 🍇 +	📜 Sort By:

NOTE: To remove a text box filter, delete the filter value from the text box and re-run the filter action.

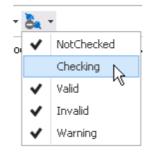
• **Connections Filter** - This option consists of a drop down menu that allows you to filter by connection type. By default, all of these options are selected, but one or more can be DE-selected.



- Status Filter This option consists of a drop-down list with the various connection status options.
 - NotChecked Metalogix Content Matrix has not tried to validate the connection yet.
 - Checking Metalogix Content Matrix is currently trying to validate the connection.

- Valid Metalogix Content Matrix has tried to validate the connection, and has been successful. A connection has been established.
- Invalid Metalogix Content Matrix has tried to validate the connection, and has been unsuccessful. A connection has not been established.
- Warning Metalogix Content Matrix has tried to validate the connection, and has been successful. A connection has been established, however, a warning message has been given.

By default all of the status types are selected but, as with the Connections Filter, one or more can be de-selected.



You can also Sort by

- **Default** All of the connections in the order they were added.
- **Type** -These are the same types that are listed in the Connections Filter drop down menu. When selected, connection types will be sorted in the following order:
 - Exchange PST files
 - Exchange Servers
 - SharePoint farms (this includes all Web App and Farm connection to a server, as well as Database connections)
 - SharePoint Site connections, which include Site connection types, and Read-only connections to SharePoint

You can combine various filter and sort options.

Items View Tab

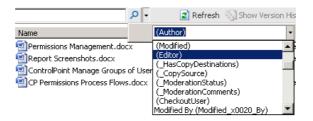
The Items View tab displays any items/documents that exist directly under the selected node (that is, the content of any subfolders under the selected node-will not be displayed), along with column metadata.

Name	Content Type ID	Approver
Low_tide_oops.jpg	0x010100A7893BEB33A36644944C75D151399	
Important Addresses.doc	0x010100A7893BEB33A36644944C75D151399	
📥 logo.gif	0x010100A7893BEB33A36644944C75D151399	
read me.html	0x010100A7893BEB33A36644944C75D151399	
MLSharePointdisco.aspx	0x010100A7893BEB33A36644944C75D151399	
wssbeta2_eula.rtf	0x010100A7893BEB33A36644944C75D151399	
🖬 beta2_eula.rtf	0x010100A7893BEB33A36644944C75D151399	
CMS Airlift Notes.doc	0x010100A7893BEB33A36644944C75D151399	
Picasa.ini	0x010100A7893BEB33A36644944C75D151399	
DEWRCaseStudy.doc	0x010100A7893BEB33A36644944C75D151399	

There are four main options that are available through this tab. These options are:

• **Search** – To perform a full or partial text search, enter the string in the search box then either and either press <Enter>, or click the magnifying glass icon to run the search.

NOTE: The search will be run on the name column (the FileLeafRef) by default, but you can select a different column to search from the drop-down to the right of the search box.



- Refresh This button will refresh all of the items in the Items View tab.
- Show/Hide Version History This button option is only available when the selected document library/list has versioning configured. When this button is selected the Items View tab will be divided into two sections, a top section displaying all of the items/documents and a bottom section displaying all of the versions for the selected item/document.

Explorer View	W Items View Browser View		iew			
Search In Name 🔎 🔻				🔿 Refresh 🚦 H	ide Version History	(i) Show Properties
Name			ID	Content Type ID	Content Type	Created
Volunteer Needs Assessment Survery - Cop				0x0101002F48ACE037B9B74887676E0765767	Document	10/10/2016 10:42:47 A
SALARY BUDGET 05-07 Updated - Copy.xls				0x0101002F48ACE037B9B74887676E0765767	Document	10/10/2016 10:42:47 A
FLSA classificati	ion table 063020	11-revised	3	0x0101002F48ACE037B9B74887676E0765767	Document	10/10/2016 10:42:49 A
CRYPTOLOCKER	R - Copy.txt		4	0x0101002F48ACE037B9B74887676E0765767	Document	10/10/2016 10:42:49 A
🖂 RE FOR APPRO	OVAL - Copy.msg)	5	0x0101002F48ACE037B9B74887676E0765767	Document	10/10/2016 10:42:50 A
📴 Cover COmpliar	Cover COmpliance - Copy.ppt			0x0101002F48ACE037B9B74887676E0765767	Document	10/10/2016 10:42:51 A
💼 Copy-2013 PER	FORMANCE APP	RAISAL Rob	7	0x0101002F48ACE037B9B74887676E0765767	Document	10/10/2016 10:42:51 A
T-2104 NYS Tax Form-signed - Copy.pdf			8	0x0101002F48ACE037B9B74887676E0765767	Document	10/10/2016 10:42:52 A

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When an item/document is selected in the top window, all of that item/document's version's will be listed in the bottom half of the window. You can then look at the metadata for each item/document version that exists. This option can be combined with the **Show/Hide Properties** button.

If the **Show Version History** button has already been selected, this will change to be a **Hide Version History** button instead. You can use this option to stop looking at item/document version histories.

• Show/Hide Properties - The Show Properties button allows you to see a list-style view of the available fields (columns) and their values, for a selected item/document. Any value listed in dark text can be edited and within the window.

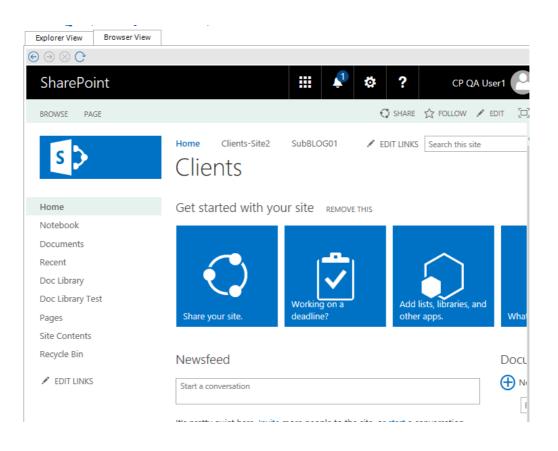
Explorer	/iew	Items View	Browser View			
Search In N	ame	م	-	C Refres	h 😓	Hide Version History 🕕 Hide Pi
<mark>∂∎</mark> A↓	÷		Name	e	ID	Content Type ID
✓ _Hidde	en		∧ ₩ V	olunteer Needs Assessment Survery - Cop	1	0x0101002F48ACE037B9B748876
Conten	t Type	Document	🗹 S	ALARY BUDGET 05-07 Updated - Copy.xls	2	0x0101002F48ACE037B9B748876
Is Signe	ed		F	LSA classification table 06302011-revised	3	0x0101002F48ACE037B9B748876
 Misc 			C	RYPTOLOCKER - Copy.txt	4	0x0101002F48ACE037B9B748876
\$Resou	rces:core,	2	🖂 R	E FOR APPROVAL - Copy.msg	5	0x0101002F48ACE037B9B748876
Access	Policy		o c	Cover COmpliance - Copy.ppt	6	0x0101002F48ACE037B9B748876
App Cre	eated By		d C	Copy-2013 PERFORMANCE APPRAISAL Rob	7	0x0101002F48ACE037B9B748876
App Mo	dified By		7 n	T-2104 NYS Tax Form-signed - Copy.pdf	8	0x0101002F48ACE037B9B748876
Approv	al Status	0				
Approv	er Commer					
BLOB S	equence N					
Check I	n Commen					
Checke	d Out To					
Checke	d Out To		~			

The fields in the **Properties** window can also be ordered by category, or alphabetically. By default, the fields are ordered by category, and are listed alphabetically within each category. If listed alphabetically, then all property fields (columns) will be listed in alphabetical order, with no breakdown by category. There are two buttons at the top of the Properties window that can be used to determine what ordering type is used. This option can be combined with the **Show/Hide Version History** button.

If the **Show Properties** button has already been selected, this will change to be a **Hide Properties** button instead. Use this option to close the Properties window.

Browser View Tab

The **Browser View** displays a view of the content as it would be seen in a web browser for a selected node. It is also available if selecting a single item in the **Items View**. When selected, this tab will display a fully functioning web browser view of the selected content. You can use this Browser View to navigate or work with their content, the same way they would through a normal web browser window.



Jobs List

Jobs in Metalogix Content Matrix Console can be managed from the Job List. Jobs are listed for migration actions that have already been run, as well as for actions that have been saved.

Job Source: C:\Users\doconnor										
🍟 File 🔹 🕟 Run Jobs Locally 📃 Run Jobs Remotely 🛞 Delete Jobs 🔬 Export Excel 😥 View Log ╎ Grange Configuration 🎰 Generate PowerShell Script 🔹 🄿 Navigate 🔹									<u> •</u>	Remove Sort
Job Name	Source	Target Container	Started	Status	Log Summary	Data Migrated	Finished	Total Duration	User Name	Machine Na
Paste Site Collection	http://qa2013fa	https://metalogixsof				Bytes Copied: 0 B			METALOGIX\doc	BOSTON-SP/
Paste List Views	http://qa2013fa	https://metalogixsof	5/18/2020	Done	Completions: 2, Skipped: 1	Bytes Copied: 0 B	5/18/2020 1:45:24 PM	00:00:13	METALOGIX\doc	BOSTON-SP/
Paste Site as Subsite	http://qa2013fa	https://metalogixsof	5/18/2020	Done	Sites Copied: 1, Lists Copied:	Bytes Copied: 273.7 kB	5/18/2020 1:45:10 PM	00:06:46	METALOGIX\doc	BOSTON-SPA

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Connecting to Public Folders

There are two basic types of connections that can be made to Public Folders: <u>Connections to Exchange</u> <u>Servers</u> and <u>Connections to PST</u>.

Connecting to an Exchange Server

To connect to an Exchange Server:

 In Metalogix Content Matrix Console ribbon toolbar, choose Connection > Connect to Exchange Server to display the Exchange Server Logon dialog.

Mailbox profile	Custom profile settings
User mailbox	
	Example: jsmith@company.com
Currently logg	ged on user (METALOGIX\seanm)
O Different user	
Password	
	Store password (Not recommended)
Server settings	
Exchange server:	
Connector type:	Exchange Web Services (EWS)
	Messaging Application Programming Interface (MAPI)*
	Messaging Application Programming Interface (Redemption)
* MAPI adapter ne	eeds Microsoft Outlook (x86) to be installed on your system. Please ate version of Outlook to use MAPI connector.

2. For Mailbox profile, select a value from the drop-down.

Mailbox profile	Custom profile settings	-
	Custom profile settings	
	Outlook	

NOTE: If you selected Outlook, all settings will be automatically filled in.

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3. Use the information in the following table to determine the appropriate action to take.

If you selected	Then
Custom profile settings	go to the next step.
Outlook	go to step

- 4. Enter a User mailbox (e.g. jsmith@company.com). Then specify whether it is the mailbox of the Currently logged on user or Different user.
- 5. In the Server settings section, enter the name of the Exchange server and select a Connector type:
 - Exchange Web Services (EWS) This is the Exchange web services connector type. When this connector is selected, any public folder can be opened in Metalogix Content Matrix. Please note that for this connector type only eml message format is supported as the output file format for migration into SharePoint. EWS must be allowed on the Exchange server.

NOTES:

- This option is not available if you selected **Outlook** as the Mailbox profile.
- EWS is not supported for Excahange Online because Microsoft has deprecated EWS basic authentication.
- Messaging Application Programming Interface (MAPI) This connector type can be used only if Outlook (32bit) is installed on the local computer. When MAPI is selected, only the logged on user can browse and view public folders for which they have been given rights. However, this connector type supports msg as well as eml output formats for migration. With the msg file format, the full, original Outlook fidelity is retained and the attachment and message header and body are all contained within a single msg file in SharePoint. If Outlook is installed as the default mail client, and users double-click on the migrated msg file in the web browser in SharePoint, the message will open in Outlook and all Outlook actions are available to the user directly, e.g., Reply, Forward, etc.
- Messaging Application Programming Interface (Redemption) This is the preferred connection method. This connector type requires CDO (Collaboration Data Objects) or Outlook (32bit or 64bit) installed on the local computer. Other features are the same as with MAPI connector type.

Environment	ΜΑΡΙ	Redemption
32bit OS and 32bit Outlook	~	
32bit OS and CDO (Collaboration Data Objects)	-	\checkmark

64bit OS and 64bit Outlook	-	
64bit OS and 32bit Outlook		(Metalogix Content Matrix Console - Public Folder Edition32.exe)
64bit OS and CDO (Collaboration Data Objects)	-	(Metalogix Content Matrix Console - Public Folder Edition32.exe)

NOTES:

- To apply the **Redemption** connector type in 64bit OS and 32bit Outlook (or CDO) environment, Metalogix Content Matrix Console - Public Folder Edition has to be started via the Metalogix Content Matrix Console - Public Folder Edition32.exe file instead of the conventional Metalogix Content Matrix Console - Public Folder Edition.exe file.
- Metalogix Content Matrix Console Public Folder Edition32.exe is located under: C:\Program Files (x86)\Metalogix\Metalogix Content Matrix Console\Public Folder Edition\.
- 6. In case of **EWS** Connector type, either:
 - select the Server version from the drop-down and enter the EWS URL and OWA URL then click [OK].

OR

 click [Discover] button to open the Auto Discover dialog. Enter the User mailbox and user credentials if necessary then click [Start].

Exchange Server settings in the Exchange Server logon dialog will be filled in automatically.

Connecting to a PST File

To connect to a PST file:

1. In the Metalogix Content Matrix Console ribbon, choose **Connection > Connect to PST** to display the **Connect to PST File** dialog.

Connect to PST File			×
PST file:			Browse
Authentication No password Use password:	Remember my password		
		Connect	Cancel

- 2. For PST file, either:
 - enter the location of the PST file
 - OR
 - click [Browse] and navigate to the desired PST file.

NOTE: The Connect to PST feature requires Outlook (32bit or 64bit).

Environment	Connect to PST
32bit OS and 32bit Outlook	
32bit OS and CDO (Collaboration Data Objects)	-
64bit OS and 64bit Outlook	
64bit OS and 32bit Outlook	(Metalogix Content Matrix Console - Public Folder Edition32.exe)
64bit OS and CDO (Collaboration Data Objects)	-

NOTES:

- To apply the Redemption connector type in 64bit OS and 32bit Outlook (or CDO) environment, Metalogix Content Matrix Console - Public Folder Edition has to be started via the Metalogix Content Matrix Console - Public Folder Edition32.exe file instead of the conventional Metalogix Content Matrix Console - Public Folder Edition.exe file.
- Metalogix Content Matrix Console Public Folder Edition32.exe is located under: C:\Program Files (x86)\Metalogix\Metalogix Content Matrix Console\Public Folder Edition\. Metalogix Content Matrix Console - Public Folder Edition32.exe does not support the SharePoint Local Object Model (OM) connection.
- 3. If the PST file is password protected, click the **Use password** radio button, then enter the password for the PST file. If you check the **Remember my password** box, the next time that Metalogix Content Matrix is started it will connect to the PST file without the need to type in the password again.

Connecting to SharePoint

The following basic connection adapters are supported for making connections to SharePoint from Metalogix Content Matrix Console:

- A local connection to a SharePoint site or server *
- A remote connection to a SharePoint site or server
- A client side object model (CSOM) connection for SharePoint Online at the site level

* As of version 9.3 the Metalogix Content Matrix Console client application requires Microsoft .NET Framework 4.7.2 to run. Since this .NET requirement applies to the machine on which Metalogix Content Matrix is installed, Metalogix Content Matrix cannot make a local Object Model (OM) connection on a SharePoint 2007 or 2010 environment, because SharePoint 2007 and 2010 require an earlier version of the .NET Framework (v.3.5), which prohibits Metalogix Content Matrix from completing the connection. Because of this, any migration 'jobs' configured to connect to SharePoint 2007 and 2010 environments using a Local OM connection type will cease to work, and these jobs will need to be recreated for use over MEWS or DB.

The following table identifies the connection adapter types for each supported version of SharePoint:

SharePoint Server Type	Local Object Model (OM) Connection (Metalogix Content Matrix Console - installed on server)*	Remote Object Model (OM) Connection (Metalogix Extensions Web Service installed on remote server)	SharePoint Client Side Object Model (CSOM) Connection
Microsoft Office 365	-	-	
Microsoft SharePoint 2013			-
Microsoft SharePoint 2016			-
Microsoft SharePoint 2019	 Image: A start of the start of	~	-
	**	**	

SharePoint Server Type	Local Object Model (OM) Connection (Metalogix Content Matrix Console - installed on server)*	Remote Object Model (OM) Connection (Metalogix Extensions Web Service installed on remote server)	SharePoint Client Side Object Model (CSOM) Connection
Microsoft SharePoint Server Subscription Edition	**		

- * Metalogix Content Matrix Console Public Folder Edition32.exe does not support the SharePoint Local Object Model (OM) connection.
- ** Currently, if Content Matrix is installed in a FIPS-enabled environment, you cannot connect/migrate to SharePoint 2019. For SharePoint Server Subscription Edition in a FIPS-enabled environment, you can only connect using a remote object model connection. See <u>Errors Connecting to SharePoint</u> <u>2019 or SharePoint Server Subscription Edition in a FIPS-Enabled Environment</u> for more information.

Connecting to a SharePoint On Premises Site or Server

The same connection methods and options can be used for a normal connection to SharePoint and a read-only connection to SharePoint. The below steps can be used for both connection types. The read-only connection can be used to help users keep their source and target connection separate (and it can help ensure that users do not accidentally migrate any data to a source connection).

NOTES:

- When making a secure connection to a SharePoint URL that is configured with TLS, Content Matrix can use any version of TLS that is compatible with .NET Framework 4.7.2. The default version of TLS used by the operating system on the machine from which you are connecting will be used by Content Matrix.
- Currently, connections to a SharePoint server cannot be made for SharePoint 2019 in a FIPSenabled environment. (See <u>Errors Connecting to SharePoint 2019 or SharePoint Server Subscription</u> <u>Edition in a FIPs-Enabled Environment</u> for more information.)

To connect to a SharePoint site or server:

In the Metalogix Content Matrix ribbon, choose **Connection > Connect to SharePoint**.

SharePoint Logon			×
Connection Options	Address:	I ● Site ○ Web App ○ Farm	*
Proxy Options	Target Type: Connection Type:		0
Included Certificates	Authentication Type:	Auto Detect	Ø
	AXCELERTEST\te	estbenchfarm	
	 Different user: Password: 		0
	Remember my	y password	
	Override SharePoir	nt Online Tenant Domain Name	
		Ø	
		ОК	Cancel

To complete the Connection Options tab:

1. For **Address**, enter either the URL or IP address of the SharePoint site or server to which you want to connect.

Note that the drop-down menu displays a list of previous connections.

2. For **Target Type**, select the connection type. Use the information in the following table for guidance.

If you want to connect	Select
directly to a SharePoint site	Site.
to a specific Web application on a SharePoint server	Web App. NOTE: This option can only be used if using the Local or Metalogix Extensions Web Service connection type.
to a SharePoint instance at the Farm/server level (which will allow you to see all site collections for all Web Application on the selected server)	Farm. NOTE: This option can only be used if using the Local or Metalogix Extensions Web Service connection type.

3. Select a **Connection Type** from the drop-down. Use the information in the following table for guidance.

Connection Type:	Remote Connection (Metalogix SharePoint Extensions Web Ser 🗸	
	Auto Detect	1
	Local Connection (SharePoint Object Model)	
	Remote Connection (Metalogix SharePoint Extensions Web Service)	
	Remote Connection (SharePoint Clier Side Object Model O365)	

If	Select	Notes
you want to have Metalogix Content Matrix choose the connection adapter type that makes the most sense for the target SharePoint instance	Auto Detect	 If the SharePoint instance is local (installed on the same machine as the Metalogix Content Matrix Console), the Local Connection (SharePoint Object Model) will be used If the SharePoint instance is remote (installed on another machine), and the Metalogix Extensions Web Service is installed, the Remote Connection (Metalogix SharePoint Extensions Web Service) type will be used.
Metalogix Content Matrix Console is installed locally (that is, on the same SharePoint server or one of its Web Front Ends (WFEs)	Local Connection (SharePoint Object Model)	 This connection type is generally recommended for the target SharePoint instance if possible, to help with performance and to help provide the product with greater leverage into SharePoint. AND the account used for the connection. must be the logged in user and have the following permissions: Farm Administrator
		 Site Collection Administrator DB_Owner on the Content Database (to allow the connecting user access to the local SharePoint Object Model). NOTE: Currently, a local connection to a SharePoint server cannot be made for SharePoint Server Subscription Edition in a FIPS-enabled environment. (See Errors Connecting to SharePoint 2019 or

Connecting to SharePoint

lf	Select	Notes
		SharePoint Server Subscription Edit in a FIPs-Enabled Environment for more information.)
 Metalogix Content Matrix Console is not installed locally Metalogix Metalogix SharePoint Extensions Web Service (MEWS) is installed on the SharePoint server/WFE to which you are connecting 	Remote Connection (Metalogix SharePoint Extensions Web Service)	The connecting account requires Full Control over the content being connected to and migrated. Additional permissions are provided through the use of the Metalogix Extensions Web Service. NOTE: Although it is strongly recommended that the version of the Metalogix Extensions Web Service (MEWS) match the installed version of Content Matrix, you can <u>override it to use</u> <u>an earlier MEWS version</u> .

NOTE: As of version 9.5, Content Matrix no longer supports CSOM connections to SharePoint on premises. The option will work for backward compatibility with existing jobs, but if you select it for a new connection, a pop-up warning will display.

4. For Authentication Type, select the method to use when trying to connect to the specified SharePoint instance.

Use the information in the following table for guidance.

Authentication Type:	Auto Detect	~	
	Auto Detect		
Connect As	Windows Authentication		
AXCELERTEST\tes	Forms Based Authentication		
	Office 365 OAuth/Standard/ADFS Authentication		
 Different user: 	Office 365 OAuth with MFA Authentication (Not Auto Detected)		
	Web Browser Authentication (Not Auto Detected)		ĥ
	Office 365 Web Browser Authentication (Not Auto Detected)		l

If	Select	Notes
you want Metalogix Content Matrix to automatically check against the SharePoint environment	Auto Detect	Metalogix Content Matrix will check for non-Office 365 authentication types listed in the drop-down (in order), and use the first method that is found.

If	Select	Notes
you want to connect to the SharePoint environment using the currently logged in Windows user's credentials	Windows Authentication	 The logged in user credentials are used by default; however, other credentials that use this authentication method can also be entered. This is the authentication type that most environments use.
 you selected Metalogix SharePoint Extensions Web Service as the Connection Type AND you want to connect using Forms Based Authentication 	Forms Based Authentication	 Most setups for Forms Based Authentication are supported. This method is limited to the Metalogix SharePoint Extensions Web Service connection type because it authenticates through IIS and not Active Directory (AD).
you want to connect through a Web browser	Web Browser Authentication (Not Auto Detected)	This option is not searched for within the "Auto Detect" option, and needs to be manually set. In order for the Metalogix Content Matrix Console to logon to the system, users must have logged on to the system being connected to through the web browser on that system first (only before the initial connection). Since this is all done using the Web browser for authentication, the credentials section of the window will be grayed out (since it is not needed), and it is limited to the MetalogixSharePoint Extension Web Services Connection Type because it authenticates through IIS and not the Active Directory (AD). NOTES: • Because this connection method uses cookies from the browser, it may require multiple logins when running a single migration. However, this is only likely if the migration is running for a long

If	Select	Notes
		 session; this is mainly determined by the web browser settings for authentication. In the event that a login is required, a dialog box appears that lets users log in. After the user logs in, the migration will continue from where it left off. If you are planning to run a job using a PowerShell script, make sure the PowerShell script, make sure the PowerShell console is closed before you make the connection using this method. Otherwise, an error will occur when you attempt to run the PowerShell job.

5. For **Connect As**, enter/select the login credentials you want to use to connect to the SharePoint site/server. Use the information in the following table for guidance.

NOTE: This option is disabled if you selected Local Connection (SharePoint Object Model) or Web Browser Authentication (Not Auto Detected).

If you want to	Then
use the current Windows user's authentication credential	Select the (default) <domain>\<user> radio button.</user></domain>
use different authentication credentials	 Select the Different User radio button, and Enter the applicable user name and Password. In cases where alternate credentials are entered, it is recommended that you select the Remember my password check box so Metalogix Content Matrix will automatically remember that user account password. This is especially important if you chose Web Browser Authentication, as credentials must be stored in the Credential Manager vault before the connection is made.

- 6. If you need to configure proxy settings:
 - a) Select the Proxy Options tab.
 - b) Follow the procedure for <u>Configuring Proxy Settings</u>.

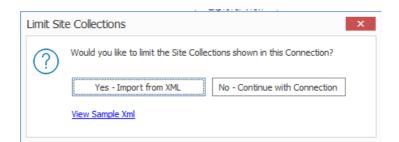
SharePoint Logon		x
Connection Options	Enable proxy O Import Proxy From Internet Explorer O Enter Manually	
Proxy Options	Server name: Port:	
Included Certificates	Connect As METALOGIX\doconnor Different user: Password: 	
	OK Cancel	

- 7. If you want to Add or Remove certificates to be included when connecting to SharePoint:
 - a) Select the Included Certificates tab.

Please see the <u>Connecting with Certificates</u> for more details on connecting to SharePoint instances that require certificates.

b) After all of the desired connection options have been set, for all options tabs, click **[OK]** to establish the connection.

If you selected a connection type other than Site, the Limit Site Collections dialog displays, giving you the option to limit the site collections to include in your connection (when importing an xml file with the list of URLs you want to include). This is useful if the environment you are connecting to includes a very large number of site collections. In this case, limiting displayed site collections can improve performance.



NOTE: If you want to **View Sample xml**, click the link on the dialog. The xml file you import must follow the same format as this sample.

- 8. Either:
 - Click [Yes Import from XML] to specify the URLs of the sites you want to include in the connection, then browse/upload the file

OR

Click [No – Continue with Connection] to add all sites within the selected scope to the connection.

If Metalogix Content Matrix successfully makes the connection, a new node will appear in the Explorer View, and you can expand this node and navigate through the SharePoint objects.

Overriding the Version of the Metalogix Extensions Web Service (MEWS) When Making a SharePoint Connection

It is strongly recommended that when you select **Remote Connection (Metalogix SharePoint Extensions Web Service)** to connect to SharePoint, the version of MEWS is installed on the remote server is the same as the installed version of Content Matrix Console. However, when you select MEWS as the connection type, you will have the option to **Override the MEWS Version** and specify an earlier MEWS Version (in the format n.n.n.n) when making a connection. Note that you will receive a warning message that the installed version of MEWS may be incompatible.

Authentication Type: Auto Detect version Override		Address:	http://win2019-2/sites/testSite		¥
	0	Target Type:	Site	9	
Include MEWS Version Override You are connecting to different version of MEWS (9.3.0.1). Note: There may be incompatibility when connecting to a different version of MEWS, if you	Proxy Options	Connection Type:	Remote Connection (Metalogix SharePoint Extensions Web Ser	~	0
MEWS Version Override You are connecting to different version of MEWS (9.3.0.1). Note: There may be incompatibility when connecting to a different version of MEWS. If you	~	Authentication Type:	Auto Detect		0
try again.		You are connecting to differe Note: There may be incompa experience any problems, ple	stibility when connecting to a different version of MEWS. If you		0
Do not show this message until application restarts					
Override MEWS Version		Do not show this message	e until application restarts		
MEWS Version: 9.3.0.1					

You can hide the warning message for any new connections and re-connections made during the current session by checking the **Do not show this message until application restarts** box.

IMPORTANT: You cannot update the MEWS version once the connection has been created.

If the MEWS version is overridden, the job log will display the warning message. (If both the source and target connections use an older version of MEWS, an entry will display for each.)

	Running)					-
OB aste Site as Subsite	DATA MIGRATED 20.0 kB	SOURCE	2019-2/sites/testSite			
TART TIME /17/2021 11:56:47 AM	ELAPSED TIME	TARGET	2019-2/sites/site1			
TATUS uccesses: 3 Varnings: 1 allures: 0	PROGRESS Sites Copied: 1		Õ	Running Migration		
	TLY RUNNING (1) Operation Loading source and t	arcet of ich	Item Paste Site as Subsite	Source http://win2019-2/sites/test	Target	Status
A 2/17/2021 11:56:48 AM	Using MEWS version		Warning: Using MEWS version 9.3.0.1		Indelline an almost and	Warning
	Initialising Workflow R					
			testSite	http://win2019-2/sites/test	http://win2019-2/sites/site1	Completed Completed
2/17/2021 11:56:50 AM 2/17/2021 11:56:51 AM	Initialising Workflow R		testSite		http://win2019-2/sites/site1	Completer
✓ 2/17/2021 11:56:50 AM	Initialising Workflow R		testSite		http://win2019-2/sites/site1	Complete

Connecting to SharePoint Online

Metalogix Content Matrix Console can make a site level connection to a SharePoint Online environment.

To connect to SharePoint Online:

In the Metalogix Content Matrix ribbon, choose Connection > Connect to SharePoint.

Connection Options	Address:	1		¥
	Target Type:	● Site 🔷 Web App 🔷 Farm 🚱		
Proxy Options	Connection Type:	Auto Detect	~	0
~	Authentication Type:	Auto Detect	~	0
Included Certificates	Connect As			_
	AXCELERTEST\te	tbenchfarm		
	O Different user:		(0
	Password:			
	Remember my	password		
	Override SharePoir	t Online Tenant Domain Name		
		0		

Make sure the selected Target Type is Site.

To complete the Connection Options tab:

1. For Address, enter either the URL or IP address of the SharePoint site or tenant to which you want to connect.

Note that the drop-down menu displays a list of previous connections.

- 2. For Target Type, select the connection type. Use the information in the following table for guidance.
- 2. For Target Type, select Site.

3. For Connection Type, select Remote Connection (SharePoint Client Side Object Model O365).

NOTE: If you accept the default (Auto Detect), this option will be detected automatically.

Auto Detect	X
Auto Detect	43
Local Connection (SharePoint Object Model)	
Remote Connection (Metalogix SharePoint Extensions Web Service	
Remote Connection (SharePoint Client Side Object Model O365)	

4. For Authentication Type, select the method to use when trying to connect to the specified SharePoint instance. When connecting to Office 365, the two main Authentication Types will be Office 365 OAuth/Standard/ADFS Authentication and Office 365 Web Browser Authentication (Not Auto Detected). Use the information in the following table for guidance.



For a SharePoint Online connection that uses "modern" (not "legacy") authentication, you must select one of the O365 OAuth Authentication options or Office 365 Web Browser. If the account is also part of a <u>SharePoint Online Multi-Factor Authentication Policy</u>, Office 365 Web Browser or O365 OAuth with MFA Authentication must be used.

For more information about legacy vs. modern authentication, refer to the Microsoft Support article <u>How modern authentication works for Office 2013 and Office 2016 client apps</u>.)

If	Select	Notes
you want Metalogix Content Matrix to automatically check against the SharePoint environment	Auto Detect	Metalogix Content Matrix will check for authentication types listed in the drop-down (in order), and use the first method that is found. NOTE: At the time you click [OK] to
		complete the connection, a pop-up box will display that asks if you want to use Office 365 OAuth. See <u>Using</u> <u>Office 365 OAuth Authentication to</u> <u>Connect to SharePoint Online</u> for details.
 you want to connect to Office 365 OAuth, Office 365 – Standard editions, or systems with ADFS 	Office 365 OAuth/Standard/ADFS Authentication*	By default the logged in user credentials will be unavailable, since this uses the Windows authentication

Connecting to SharePoint

If	Select	Notes
AND • MFA is not being used		method, and the Office 365 credentials will need to be entered. NOTE: At the time you click [OK] to complete the connection, a pop-up box will display that asks if you want to use Office 365 OAuth. See <u>Using</u> <u>Office 365 OAuth Authentication to</u> <u>Connect to SharePoint Online</u> for details.
your account requires the use of Multi-Factor Authentication (MFA)	Office 365 OAuth with MFA Authentication (Not Auto Detected)*	With this authentication type, you do not have to enter account credentials in Content Matrix, and the Connect As options will be disabled.
you want to connect through a Web browser	Web Browser Authentication (Not Auto Detected)	This option is not searched for within the "Auto Detect" option, and needs to be manually set. In order for the Metalogix Content Matrix Console to logon to the system, users must have logged on to the system being connected to through the web browser on that system first (only before the initial connection). Since this is all done using the Web browser for authentication, the credentials section of the window will be grayed out (since it is not needed), and it is limited to the Metalogix Extensions Web Service Connection Type because it authenticates through IIS and not the Active Directory (AD). NOTES: • Because this connection method uses cookies from the browser, it may require multiple logins when running a single migration. However, this is only likely if the migration is running for a long session; this is mainly determined by the web browser settings for authentication. In the event that a login is required, a dialog box

If	Select	Notes
		 appears that lets users log in. After the user logs in, the migration will continue from where it left off. If you are planning to run a job using a PowerShell script, make sure the PowerShell console is closed before you make the connection using this method. Otherwise, an error will occur when you attempt to run the PowerShell job.
you want to connect through a Web browser using authentication for Office 365	Office 365 Web Browser Authentication	 This option works the same as Web Browser Authentication (Not Auto Detected) except: it looks for more specific Office 365 cookies it requires that users first log into Office 365 through the browser instead of allowing multiple logins, only one "request" for data can be made at a time, which ensures that no data is missed or lost due to the system locking from too many requests (but which may result in a slower connection).
you want to make a site- level connection to a <u>GCC</u> <u>High site using O365 User</u> <u>Provided Authentication</u>	Office 365 User Provided Authentication (hidden by default)	You must first run a utility provided by Quest Support and enable the setting EnableUserProvidedAuthentication . Refer to the Quest Support Knowledge Base article <u>Enabling User Provided</u> <u>Authentication in Content Matrix</u> for details.

* If you are connecting to SharePoint Online using OAuth authentication and you used a custom domain as the Address, you will also need to check the Override SharePoint Online Tenant Domain Name and enter the default tenant domain name (which can be found at https://admin.microsoft.com/Adminportal#/Domains) to allow Content Matrix to route the request to the proper region.

	Metalogix Software				
✓ Override SharePoint Online Tenant Domain Name	Domains				
metalogixsoftware622.onmicrosoft.com	+ Add domain □ Buy domain 🖒 Refresh				
	Domain name 🕆	Status	Choose columns		
	MetalogixSoftware622.onmicrosoft.com (Def. Healthy			
	ControlPoint.com	MetalogixSoftware6	22.onmicrosoft.com (Default)		

5. For **Connect As**, enter/select the login credentials you want to use to connect to the SharePoint site/server. Use the information in the following table for guidance.

NOTE: This option is disabled if you selected Office 365 OAuth with MFA Authentication, or Web Browser Authentication (Not Auto Detected).

If you want to	Then
use the current Windows user's authentication credential	Select the (default) <domain>\<user> radio button.</user></domain>
use different authentication credentials	 Select the Different User radio button, and Enter the applicable user name and Password. In cases where alternate credentials are entered, it is recommended that you select the Remember my password check box so Metalogix Content Matrix will automatically remember that user account password. This is especially important if you chose Web Browser Authentication, as credentials must be stored in the Credential Manager vault before the connection is made.

- 6. If you want to Add or Remove certificates to be included when connecting to SharePoint:
 - a) Select the Included Certificates tab.

Please see the <u>Connecting with Certificates</u> for more details on connecting to SharePoint instances that require certificates.

b) After all of the desired connection options have been set, for all options tabs, click **[OK]** to establish the connection.

If Metalogix Content Matrix successfully makes the connection, a new node will appear in the Explorer View, and you can expand this node and navigate through the SharePoint objects.

NOTE: Should the log file ever show a "could not find site on remote SharePoint server" exception message when working with CSOM connections, simply restart the CSOM service on all machines running the Metalogix Content Matrix console and then rerun the action.

Using Office 365 OAuth Authentication to Connect to **SharePoint Online**

Office 365 OAuth Authentication is a token-based authentication method that can be used as an alternative to Standard/ADFS Authentication to reduce throttling.

If Multi-Factor Authentication is set up for the tenant and enabled for the account (as described in the Microsoft TechNet article SharePoint Online - 0365: Set up Multi-Factor Authentication), you can connect using Office 365 OAuth with MFA Authentication as an alternative to Office 365 Web Browser authentication.

Registering the Metalogix Content Matrix SharePoint Client Application for OAuth Authentication

The very first time OAuth Authentication is selected, the application Metalogix Content Matrix SharePoint Client must be registered for the tenant.

IMPORTANT: Prior to version 9.2, the **Metalogix SharePoint Migration Client** application was used for OAuth Authentication. Jobs created before version 9.2 (including those that use PowerShell) will continue to use this application (as long as it is still registered in Azure Active Directory). Starting with version 9.2, all jobs using OAuth Authentication will use the Metalogix Content Matrix SharePoint **Client** application.

Required Permissions

At a minimum, the following permissions are required to register and provide consent for the Metalogix Content Matrix SharePoint Client application.

- For a site-level connection, the account must have a minimum of Site Administrator and Application Administrator permission roles.
- For a tenant-level connection, the account must have a minimum of Application Administrator permission role.

Providing Consent to Grant the Application Requested Permissions

The first time a Content Matrix user attempts to connect to SharePoint Online using Office 365 OAuth Authentication, a dialog displays requesting that you grant the permissions that the application needs to perform migrations.

A Global Administrator can check the **Consent on behalf of your organization** box, which will prevent this dialog from displaying for other users. If the account is not a Global Administrator, the Consent on behalf of your organization option will be hidden.

IMPORTANT: If a Global Administrator does not consent on behalf of the organization, each Content Matrix user who attempts to connect using Office 365 OAuth Authentication for the first time must sign in with an account that has the Application Administrator and SharePoint Administrator permission role.

Sign in to your account			
Microsoft			
.onmicrosoft.com			
Permissions requested			
Metalogix Content Matrix SharePoint Client			
This application is not published by Microsoft or your organization.			
This app would like to:			
Have full control of all site collections			
Read and write your files			
✓ Run search queries			
Read and write managed metadata			
✓ Read user profiles			
Have full control of all your site collections			
Sign you in and read your profile			
Consent on behalf of your organization			
Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy statement. You can change these permissions at https://myapps.microsoft.com. Show details			
Cancel Accept			
Terms of use Privacy & cookies •••			

After **[Accept]** is clicked, the connection is created (and the application will be registered if it does not already exist in Azure Active Directory). In addition, the token cache file **ConnectionsTokenCache.dat** is created in the AppData/Roaming/Metalogix folder. (Note, if you have used OAuth Authentication in an earlier version of Content Matrix, this file will already exist.)

Completing a Connection to SharePoint Online Using Office 365 OAuth Authentication

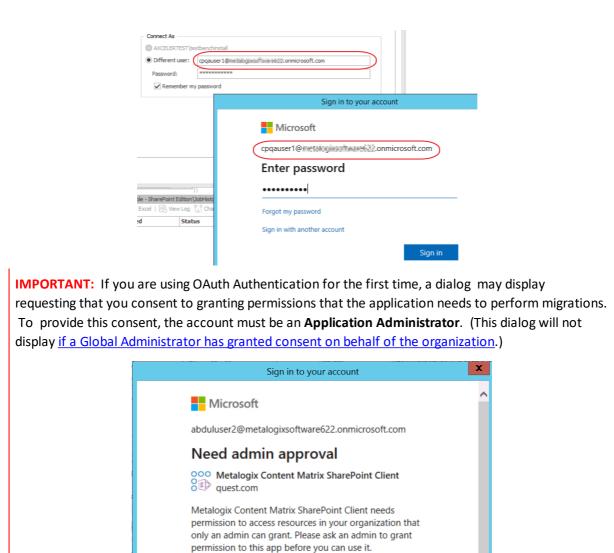
When you select one of the Office 365 OAuth authentication types, before making a connection to SharePoint Online, a pop-up specific to the authentication type will display, as described in the following table.

NOTE: If you click the **Do not show the message again.** box, Content Matrix will continue to use the selected option and no longer display the pop-up. You can resume having the pop-up display by clicking **Reset Configuration Options** on the ribbon toolbar Settings tab.

If you selected	Then		
Auto Detect or Office365 OAuth/Standard/ADFS Authentication	the pop-up will prompt you to use the Office 365 OAuth option. Office 365 OAuth or Standard/ADFS Authentication Microsoft reduces the chance of throttling when OAuth authentication is used for migrations. Quest recommends that migration users use OAuth authentication and provide consent to using the Quest app. Yes - Use OAuth No - Use Office 365 Standard/ADFS Do not show this message again. Choose either [Yes - Use OAuth] or [No - Use Office 365 Standard/ADFS].		
Office 365 OAuth with MFA Authentication (Not Auto Detected)	the pop-up will describe this authentication type. Office 365 OAuth with MFA Authentication Using this authentication type, you can create a connection to a SharePoint Online Site or Tenant, which will use a token to authenticate the connection to SPO. Do not show this message again. OK Cancel		

Signing into your O365 Account to Use Office 365 OAuth Authentication

When prompted to sign into your O365 account, for **Auto Detect** or **Office365 OAuth/Standard/ADFS Authentication**, you must use the account you specified as the **Connect As** account in Content Matrix. The connection will fail if you try to sign in with another account. (This is not an issue with **Office 365 OAuth with MFA Authentication**, which does not use a Connect As account.)



Migrating to O365 Using SPO Containers

Metalogix Content Matrix supports the migration of Public Folders using shared SPO containers when migrating to SharePoint Online. When you select this option, migration of large files (15 GB or more) is supported for all source connection types. The **Use SPO Container Office 365 Upload** option is enabled on the <u>Configure Copy Options dialog- Site Options</u> tab by default.

Have an admin account? Sign in with that account Return to the application without granting consent

Connecting with Certificates

When connecting to SharePoint, there are two options that can be used to add certificates to the list of included certificates: **Add Installed Certificate** and **Add Certificate From File**.

SharePoint connections do not actually save the certificate information directly, but instead they save the data on how to locate the certificates that are in use. This means that if the certificates are deleted or moved from the referenced location, they will no longer be used with the SharePoint connection and will have to be manually re-added.

SharePoint Certificates are also supported when generating a <u>PowerShell</u> script. It is still recommended that the initial SharePoint connection is first configured in the Metalogix Content Matrix Console. The recommended process when working with certificates and PowerShell is to first add the connection (with certificates) in Metalogix Content Matrix, then set up a migration action in the UI and generate a PowerShell script. This will allow you to get the connection format that is required to create a connection in PowerShell, and it can then be written out manually (if desired).

It should also be noted that the **Web Browser Authentication** type does not automatically detect certificates. In order for certificates to be included with this method, they must first be installed in the appropriate locations in order for a web browser itself to access them.

NOTE: In some cases, including certificates can potentially result in receiving "maximum request length" messages when migrating smaller files because the certificate information is included when the data is being migrated.

To Add Installed Certificates:

Only "Personal" certificates can be added in this manner because it is the only store that web browsers use to find certificates when accessing a website.

1. In the SharePoint Logon dialog, select the Include Certificates tab.

Friendly Name	Issued To	Issued By	Add Installed Certificate
			Add Certificate From File
			Remove
<			> 0
	Friendly Name		

2. Click [Add Installed Certificate].

The Add Installed Certificates dialog displays all of the certificates that are installed in the logged in user account's "Personal" certificate store.

3. Select any certificates that should be included, and click [OK].

When you return to the SharePoint Logon dialog the selected certificates be displayed in the Included Certificates list, and they will be included whenever Metalogix Content Matrix is running an action to or from the SharePoint connection.

To Add a Certificate from a file:

- 1. In the SharePoint Logon dialog, select the Include Certificates tab.
- 2. Click [Add Certificate From File].
- 3. Either:
 - enter a filename and location into the Certificate File text box

OR

- select the Browse button to open a file explorer dialog and navigate to, and select, the desired certificate.
- 4. If a password is required to use with the certificate, enter it in the Password (optional) text box.

NOTE: When a connection to SharePoint is made, Metalogix Content Matrix will save the password field for any certificates so it can re-establish a connection to that SharePoint instance at a later date. If you are not comfortable with entering the password in the Password (optional) field, you can move the certificate into the user account's "Personal" folder, and use the Add Installed <u>Certificate</u> option instead, provided the user account/password is the same.

When you return to the SharePoint Logon dialog, the selected certificate will display in the Included Certificates list, and it will be included whenever Metalogix Content Matrix is running an action to or from the SharePoint connection.

Important Note About Self-Signed Certificates

For security purposes, Content Matrix always attempts to validate a certificate when connecting to a TLS/SSL site. Content Matrix cannot validate a self-signed certificate for an on-premises connection however, and if it attempts to do so you will be unable to complete the connection. To avoid this issue, you must change the value of the key BypassCertificateValidation in the EnvironmentSettings.xml file to True.

Removing Certificates

Any certificates that have previously been added through the two Add Certificates options can also be removed from the list of Included Certificates.

To remove a certificate:

- 1. In the SharePoint Logon dialog, select the Include Certificates tab.
- 2. Select the certificate(s) that you want to remove.
- 3. Click [Remove].

Connecting to SharePoint Using PowerShell

You can create and edit connections to SharePoint using PowerShell. These connections will display in the Content Matrix Console.

To access the PowerShell cmdlets for connecting to SharePoint:

Open a PowerShell or PowerShell ISE session and add the PowerShell snap-ins for the application framework.

The following cmdlets are now available:

- <u>Get-MLSharePointConnections</u>
- <u>New-MLSharePointConnection</u>
- <u>Set-MLSharePointConnection</u>
- <u>Remove-MLSharePointConnection</u>

To retrieve information about active connections in the Console:

Select (from the PowerShell ISE Command Window) or enter **Get-MLSharePointConnections**, then run the cmdlet.

Details display for each active connection.

To create a new connection to SharePoint:

- 1. Select (from the PowerShell ISE Command Window) or enter New-MLSharePointConnection.
- 2. Select or enter the applicable parameters. Use the information in the following table for guidance.

Parameter	Notes	
Address (Required)	The Url of the SharePoint object (Site, Farm, WebApp or Tenant) you want to connect to.	
AuthenticationType	Valid values are:	
(Required)	• Windows	
	FormsBased	
	• Adfs	
	NOTE: Currently this cmdlet does not support connecting to SharePoint Online with OAuth authentication.	
	UserProvided	
	NOTE: UserProvided authentication is used to make site-level connections to special types of tenants, such as GCC High. To use this type of authentication, you must first run a utility provided by Quest Support and enable the setting EnableUserProvidedAuthentication . Refer to the Quest Support Knowledge Base article <u>Enabling User Provided Authentication in</u> <u>Content Matrix</u> for details.	
ConnectionType	Valid values are:	
(Required)	Om (local object model)	
	• MEWS (remote connection using Metalogix Extension Web Service)	
	 CSOM (for SharePoint Online targets only) 	
TargetType	Valid values are:	
(Required)	• Site	

Parameter	Notes
	• WebApp • Farm
ConnectAsCurrentUser	Use this parameter if you want to make a SharePoint on-premises connection using the currently logged-in user. NOTE: This parameter is not necessary when using an OM connection, which automatically connects as the currently logged-in user.
MewsVersion	This parameter is only necessary if you want to <u>use an older version</u> of the Metalogix Extension Web Service.
Password	The password of the account making the connection.
RememberPassword	This option is recommended to to ensure that the connection remains active after the PowerShell session has ended. If it is not used, the password will have to be re-entered.
Readonly	Use this parameter if you want to make a read-only connection to a SharePoint source.
SkipConnectionCheck	Use this parameter if you want to skip validation of the connection. This is useful if you use a connections factory and speeds up the creation of connections.
User	The user account making the connection.

3. Run the cmdlet.

Example Scripts:

```
New-MLSharePointConnection -Address http://win-pvf4cd21m55/ -
AuthenticationType Windows -ConnectionType MEWS -TargetType Site -Password
"Pass" -User Administrator -RememberPassword
```

```
New-MLSharePointConnection -Address https://metalogixsoftware-
admin.sharepoint.com -AuthenticationType Adfs -ConnectionType Csom -
TargetType Tenant -Password "Pass" -RememberPassword -User
cpqauser@metalogixsoftware.onmicrosoft.com
```

To edit a connection to SharePoint:

- 1. Select (from the PowerShell ISE Command Window) or enter Set-MLSharePointConnection.
- 2. Enter the **ConnectionId**.

NOTE: You can obtain the ConnectionId by running the Get-MLSharePointConnections cmdlet.

You can now update any of the following parameters, then run the cmdlet:

- ConnectAsCurrentUser (on premises connections only)
- Password
- RememberPassword
- SkipConnectionCheck

NOTE: Use this parameter if you want to skip validation of the connection. This is useful if you use a connections factory and speeds up the creation of connections.

• User

Example Script:

```
Set-MLSharePointConnection -ConnectionId '91335f9c-9311-439e-9b8e-
78d6f7ef480a' -Password pass -RememberPassword -User Administrator
```

To remove a SharePoint connection:

- 1. Select (from the PowerShell ISE Command Window) or enter Remove-MLSharePointConnection.
- 2. Enter the **ConnectionId**.

NOTE: You can obtain the ConnectionId by running the Get-MLSharePointConnections cmdlet. You can remove multiple connections using the PowerShell pipeline variable.

3. Run the cmdlet.

Example Scripts:

```
Remove-MLSharePointConnection -ConnectionID '2F91B056-C300-4263-9FA6-
17EEDF583594'
```

Remove multiple connections using the PowerShell pipeline variable:

```
Remove-MLSharePointConnection -ConnectionID '2F91B056-C300-4263-9FA6-
17EEDF583594 ,'2F91B056-C300-4263-9FA6-17EEDF583594','2F91B056-C300-4263-
9FA6-17EEDF583594' | Remove-MLSharePointConnection
```

Preparing for Your Migration

Metalogix Content Matrix offers a number of tools to help you locate and organize data and in preparation for your migration. You can:

- <u>Create a target SharePoint hierarchy prior to migration</u>
- Perform a pre-migration analysis
- <u>Create SharePoint objects</u>
- Delete SharePoint objects

Creating a Target Hierarchy

When migrating Public Folder content, there are two options for creating the target SharePoint hierarchy. In Microsoft Exchange, it is possible to create Calendars, Contact and Task lists on any level. They can be included in any of the existing folders. However, SharePoint does not support such hierarchies, and lists can only be created under a SharePoint site. Metalogix Content Matrix tries to create a corresponding structure in SharePoint that is as close as possible to the original Public Folder hierarchy on Exchange, based on the available options (that have been configured to a users preferences).

NOTE: Content Matrix supports target URLs for Public Folders migrated to SharePoint Online of up to 400 characters, which is the maximum length that SharePoint Online allows.

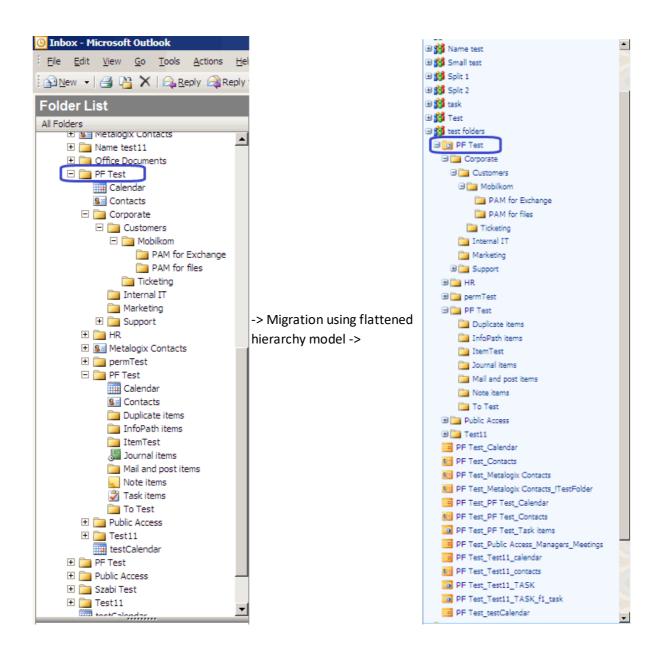
Flattened (Folder) Hierarchy

In choosing this option, simple Public Folders will be migrated as SharePoint document libraries for the root level, using subfolders within the given document library. Customized SharePoint lists (Calendars, Contact and Task lists) will be created on the root level. The name of the target library and lists will contain the path to the MS Exchange list in the original structure, as shown below:

Migration Example 1

MS Exchange	MS SharePoint
Root\Folder 1\Subfolder 1\Test calendar	Root\Folder 1_Subfolder 1_Test calendar

Migration Example 2



Site Hierarchy

If you would like to retain the exact parent-child hierarchy in SharePoint that was originally in your Exchange public folder hierarchy, choose **Site Hierarchy Creation**.

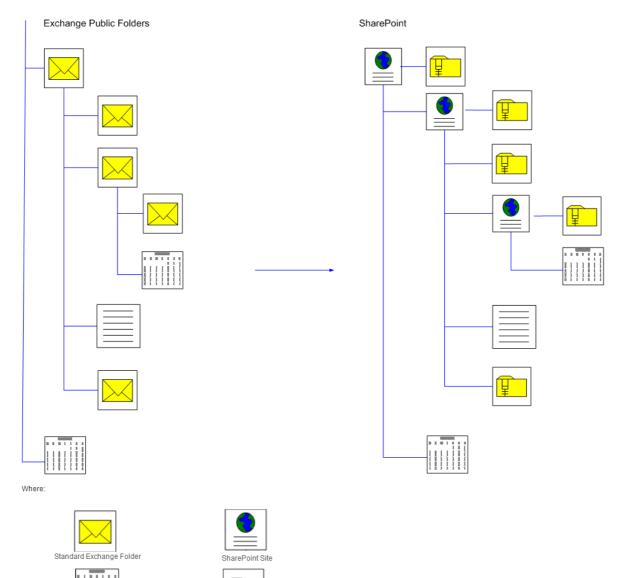
In this case:

- SharePoint Sites are created for every folder level in the original structure.
- On the corresponding site SharePoint Lists or libraries are created for every Exchange public folder:
 - Document libraries for every Mail and Post Items public folder.
 - Task lists for every Exchange Tasks public folder.
 - Calendars for every Exchange calendar public folder.

- Contact list for every Exchange contact public folder list.
- Document libraries for any other type of Exchange public folder.

Items in the root folder in Exchange will be placed in a Document Library (or other list) named 'Items'.

Sample Migration Diagram

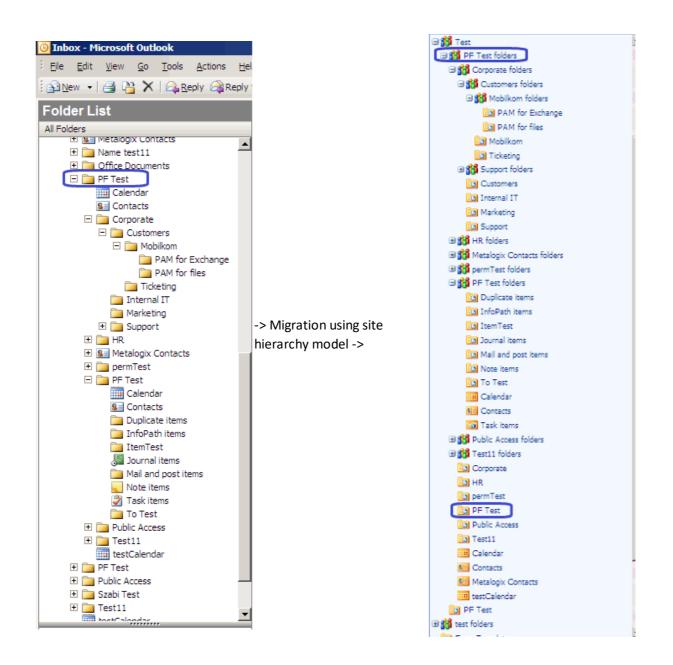




Migration Example 3

Calenda

Contact list



Splitting Large MS Exchange Public Folders

A source Exchange public folder can contain tens of thousands of items. Microsoft recommends not to have more than 5000 items in a single SharePoint container (list or folder) as it can result in degraded SharePoint performance. Metalogix Content Matrix can automatically split the contents of a large Exchange Public Folders into multiple SharePoint subfolders. Setting the limit of how many items can be migrated into one SharePoint container is an option on the **Paste** settings dialog under the **Hierarchy Options** tab.

Each created subfolder name has its parent's name, plus and the 'Received' or Created date of the first item appended to it, as shown below:

Original Exchange public folder name	SharePoint folder names
--------------------------------------	-------------------------

Preparing for Your Migration

Company items	Company items\ <date 1=""> Company items\<date 2=""> Company items\<date 3=""></date></date></date>
	 Company items\ <date n-1=""> Company items\<date n=""></date></date>

Performing a Pre-Migration Analysis

You can use pre-migration analysis functionality to analyze all the data intended for migration. Premigration analysis will search for incompatibilities which can occur during the migration, and thus help you optimize the migration process, identify the potential migration issues, and get an overview of the content size and item count. It will also estimate the migration speed from the source environment into the target environment, to help you plan the migration.

To run a pre-migration analysis:

- 1. In Explorer View, select the Exchange Connection node for which you want to run the analysis.
- 2. Right-click and choose Pre-migration analytics to display the Pre-migration analytics dialog.

Run ana	lytics 🕝 I	Measure s	peed 📕 Save report 🔕 Stop	
Item	Туре	Path	Problem description	
🔾 Detaik				
🔾 Detaik	•			
🔾 Detaik				

3. Click **Run analytics** in the top left corner to open the **Analytics settings** dialog, to configure the desired settings for the analysis action.

Analytics settings	
Migration settings Split containers after: 100000 🛨 Hierarchy creation type: C Subsites © Folders Output type: C EML © MSG Create site for migration Site name:	Logging settings Stop analysis after 1000 ↔ warnings/errors. Log the following: ✓ Critical errors preventing item migration ✓ Migration warnings Folder/Item renaming Custom forms ✓ Calculate file size (this will slow down the analysis) ✓ File size warning for files larger than 15 ↔ MB
Target SharePoint node Target SharePoint node Target SharePoint node Target SharePoint node The public folders (Blank Site) The	
	OK Cancel

- 4. Select the Target SharePoint node against which you want to run the analysis.
- 5. Configure the Migration settings options as follows:
 - a) If different from the default, specify the maximum number of items the analysis will calculate to be in one container (folder or subsite depending on hierarchy type) by entering a enter a Split containers after: value.

NOTE: If the number of items exceeds the defined limit, a new container will be "created" and the analysis will continue.

- b) For Hierarchy creation type, select whether you want Metalogix Content Matrix to:
 - "create" Subsites under the target for new hierarchy levels

OR

- "create" Folders for new hierarchy levels.
- c) For **Output type**, select the output format you want to use for analyzing items.

NOTE: The EML format is only possible using the EWS connection type.

- d) If you want the creation of a new target site to be included in the analysis:
 - Check the Create site for migration box, and
 - specify a Site Name.
- 6. Specify the applicable Logging Settings Options:
 - a) If different than the default, specify a Stop analysis after "x" warnings/errors limit, which is the number of warnings/errors that can occur within logs before the analysis will stop.

Metalogix[®] Content Matrix Public Folder Edition Preparing for Your Migration

b) Check the applicable **Log the following:** boxes. Use the information in the following table for guidance.

If you want Metalogix Content Matrix to	Then		
log critical errors	check the Critical errors preventing item migration box.		
log warnings	check the Migration Warnings box.		
log folder/item renaming warnings	check the Folder Item renaming box.		
log Exchange custom forms published into public folders	check the Custom forms box. This option is not supported for a MAPI connection to Exchange Server (all versions) or an EWS connection to Exchange Server 2007.		
calculate the size of files as well as the average item size	Calculate the file size (will slow down the analysis) box. NOTE: This option is required if you want to Estimate the migration speed and will slow down the analysis		
log files larger than a specified size	 check the File size warning for files larger than "x" box, and if different than the default, specify the file size (in MB). 		

7. Once all of the desired settings are selected in the Analytics settings dialog, click **[OK]** to continue.

The analysis will now run. The Pre-migration analytics dialog will show that it is running the analysis in the bottom left-hand corner, and will list the number of log entries next to the analysis (at the bottom).

You can stop the pre-migration analysis by clicking the **Stop** button in the top right corner of the dialog.

When the analysis is complete the results will be populated in the items grid, **Details** section and **Summary** section (these sections can be expanded by clicking the "up" arrow on the far right-hand side of the dialog, on the same line as each title). Problematic items are displayed with a warning icon. In these cases you can find more details in the Details section.

Expand the Summary section to read the summary information on content size, its count etc.

To estimate migration speed:

NOTE: If you chose to Calculate the file size when configuring the pre-migration analysis, a confirmation dialog displays after the analysis has run, prompting you to estimate the migration time based on configured settings.

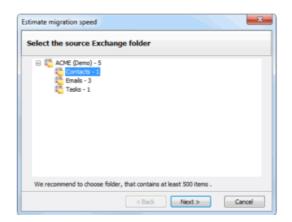
1. When prompted, click [Yes] to estimate the migration time.

stimate migration speed		
Select the source Exchange folder		
ACME (Demo) - 5		
We recommend to choose folder, that contains at least 500 items .		
< Back Next > Cancel		

2. Select the source Public Folder for which you want to estimate migration speed.

This window includes only Public Folders that exist under the Public Folder connection originally selected for the pre-migration analysis. It is recommended that users select a folder that contains at least 500 items, but any folder can be selected.

- 3. Click [Next].
- 4. Select the target SharePoint node.
- 5. Click [Next] to Estimate migration speed dialog



6. Click [Start] to begin the estimate.

When the speed estimate runs, results are displayed, in progress, in the window. The progress bar displays the analysis percentage that is complete.

7. When the process finishes, click [OK]. Users can see the estimated migration speed in the final dialog.

If you return to the Pre-migration analysis dialog, you can expand the Summary section, you can view pre-migration analysis results with an estimated time to complete migration of the public folder.

Item	Туре	Path	Problem description	
1 21.pdf	File	/Public folders/Szabi Test/Analytics Presentatio	The file is too large. (21 MB)	1
1 21.pdf	File	/Public folders/Szabi Test/Analytics Presentatio	The file is too large. (21 MB)	
50 Imvnartlsawerfvamfgsncvftms	lac×rigfmwlda Folder	r /Public folders/Szabi Test/Analytics Presentatio	Long URL (268 characters)	1
30 dfgerdcnkioplazdwqavgfhktyx	Folder	r /Public folders/Szabi Test/Analytics Presentatio	Long URL (299 characters)	
TasksPubFolder	Folder	r /Public folders/Szabi Test/Analytics Presentatio	Long URL (320 characters)	
🔀 NewTask.eml	File	/Public folders/Szabi Test/Analytics Presentatio	Long URL (325 characters)	
🔀 NewTask.eml	File	/Public folders/Szabi Test/Analytics Presentatio	Long URL (325 characters)	
•			+	1
🔍 Details				2
	stestszoro.metalogix.me	ernal/Public folders		
Container split limit: 100000 Dutput type: EML Jumber of analyzed items: 26 Jumber of subfolders: 13 Size of files: 42.24 ME	-	ernal/Public folders		ſ
Container split limit: 100000 Dutput type: EML Number of analyzed items: 26 Number of subfolders: 13 Size of files: 42.24 ME	-	ernal/Public folders		

Creating a SharePoint Object

You can create new SharePoint site collections, sites, folders, and lists via the Metalogix Content Matrix Console.

Creating a SharePoint Site

You can create a new SharePoint site via Metalogix Content Matrix under an existing site collection or site except for Database connections and the new site can use any site template that is installed on the SharePoint environment.

To create a new SharePoint site:

- 1. In the Explorer View, select the site collection or site under which you want to create the new site.
- 2. Right-click and choose Create Site.

The Create Site dialog displays, prompting you to enter the **Site Title**, **Site URL Name**, **Description**, and **Template** for the new site.

NOTE: For **Site URL Name**, it is only necessary to enter the name of the site as you want it to appear in the URL, not the entire URL path.

Create Site		
Site Title	Operations Team Site	
Site URL Name	Operations Team Site	
Description	The team sites for the Operations Group	
Template	Team site (no Office 365 group) (STS#3)	
	OK Cancel	

Note that if you are migrating to SharePoint Online or SharePoint 2019, the default template is (modern) **Team Site (no Office 365 group)**. For SharePoint Online, Content Matrix does not support connections to tenant-level groups.

3. When you have completed the fields on the Create Site dialog, click [OK].

The new site will now display in Explorer View.

Create SharePoint Site Collection

You can create a new site collections on a target SharePoint environment for any SharePoint connection type, except for database and site connections.

To create a new SharePoint site collection:

- 1. In the Explorer View navigate to the SharePoint Farm/ Web Application (on premises) or Tenant (SharePoint Online) where the new site collection should be created.
- 2. Right-click and choose Create Site Collection.
- 3. Complete the fields on the Create Site Collection dialog for the selected Mode as you would if you were creating a site collection from within SharePoint.

NOTE: In addition, you have the option to create a host named site collection using the Host Header option. Refer to the <u>Microsoft TechNet article</u> details about host-named site collections.

SharePoint On Premises	SharePoint Online
Create Site Collection	Create Site Collection
Web Application: SharePoint - 80 v Site Title: Clients English(1033) Description: Site Collection for Clients Template: Multipage Meeting Workspace (MP v	Web Application: https://metalogixsoftware622v Site Title: Sales Team Site Description: Template: Team site (no Office 365 group) (Sv)
Content Database: Auto Detect	Site URL: https://metalogixsoftware622.sharepoint.com //teams/ V Sales
Primary Administrator: bellum\administrator Secondary Administrator:	Owner: cpuser 1@metalogixsoftwar622.onmicrosoft.com
Quota Settings	Storage Quota: 110 C Mb Server Resource Quota: 300 C
OK Cancel	OK Cancel

Note that if you are migrating to SharePoint Online or SharePoint 2019, the default template is (modern) **Team Site (no Office 365 group) (STS#3)**. For SharePoint Online, Content Matrix does not support connections to tenant-level groups.

4. After completing the dialog, click [OK].

The new site collection now displays in the Explorer View.

Create a SharePoint List

You can create a new SharePoint list via Metalogix Content Matrix under an existing site as long as:

- the connection type is not read-only, and
- the new list can use any site template that is installed on the SharePoint environment.

If site creation is not valid for the connection type, the option will be disabled.

To create a new list:

- 1. Navigate to the SharePoint Site where the list/library should be created.
- 2. Right-click and choose Create List.

品 nttps://metalogixsortware622.snarepoint.com/sites/A5_5C			
🔚 https://metalogixsoftware622.sharepoint.com/sites/BijuSC			
🗆 🗹 🚊 https://metalogixsoftware622	1	Copy Site	Ctrl+C
. I SubBLOG01	83	Check Links	
AuditLogReport (2 items)	→ ←	Compare Site	
Converted Forms	67	Create List From XML	
Doc Library (12 items)	53	Create List From AIVIL	
Doc Library Test (12 items	53	Create List	
Documents	-	Create Site	
Form Templates		Delete Che Celle d'en	D-I
🔢 Sharing Links (1 item)	\otimes	Delete Site Collection	Del
🕀 📑 Site Assets (1 item)	3	Change Site Collection Se	ettings 🕨 🕨
Site Pages (2 items)			
🗉 📑 Style Library (5 items)	C	Refresh Node	F5
wfpub	Q	Search	
🔚 https://metalogixsoftware622		Analyze Churn	
몲 https://metalogixsoftware622		, ,	
https://metalogixsoftware622	(\mathbf{i})	Properties	Ctrl+P

3. Complete the Create List dialog as you would if you were creating a list from within SharePoint.

🗟 Create List			×
List Title	Safety Documents		
List Name	SafetyDocuments		
Description	Documents pertaining	to the company sponsored safety program	
Туре	Document Library		\sim
✓ Display on	Quick Launch	Create Versions	
✓ Require C	ontent Approval	Create Minor Versions	
		OK Cancel	

4. After completing the dialog, click [OK].

The new site collection now displays in **Explorer View**.

Create SharePoint Folder

You can create a new SharePoint list via Metalogix Content Matrix under an existing list or library (or within an existing folder) as long as the connection type is not read-only.. If folder creation is not valid for the connection type, the option will be disabled.

To create a new SharePoint folder:

- 1. Navigate to the SharePoint Document Library, List, or Document Folder under which the new folder should be created.
- 2. Right-click and choose Create Folder.

ann			
https://metalogixsoftware622.sharepoint.com/sites/Clients - Clients (11 Cliente Site2			
∃ 品 Clients-Site2			
BubBLOG01			
AuditLogReport (2 items)			
Converted Forms			
🗹 🕒 Doc Library (<u>12 ite</u>	ems)		
🔁 Doc Library 1 🍄	Copy List	Ctrl+C	
Documents	Check Links		
🔢 Sharing Links	Compare List		
E Site Assets (Check In, Publish or App	prove Items	
Site Pages (2	E		
🗄 📑 Style Library	Export List Metadata		
🔣 wfpub	Create Folder		
品 https://metalogi			
몲 https://metalogix 😣	Delete List	Del	
몲 https://metalogi	Refresh Node	F5	
몲 https://metalogi	Carach		
🔚 https://metalogi	Search		
🔚 https://metalogi> 🥥	Analyze Churn		
品 https://metalogiz	Properties	Ctrl+P	
□ Read the second			

3. Complete the Create Folder dialog.

Note that the Folder Type drop down allows you to select the content type with which to create the folder. if only one content type exists on that list/library/folder, the option will be grayed out. There is also a check-box option to overwrite any existing folder that uses the same folder name at the level the folder is being added.

Create Fol	der	x
Folder Name:	Safety Training Materials	
Folder Type:	Folder (0x01200019AA8949D64AE84DB204A316352	\sim
Overwrite existing folder		
	OK Cancel	
	OK Cance	

4. After completing the dialog, click [OK].

The new folder now displays in Explorer View.

Deleting SharePoint Objects

You can delete one or more SharePoint objects via Content Matrix as long as the connection type is not read-only. SharePoint objects that can be deleted via Content Matrix are:

- SharePoint Sites
- SharePoint Lists
- SharePoint Document Folders

- SharePoint Documents
- SharePoint List Items

If the action is not valid for the connection type, it will be disabled.

NOTE: Document versions and list item versions cannot be deleted via Content Matrix.

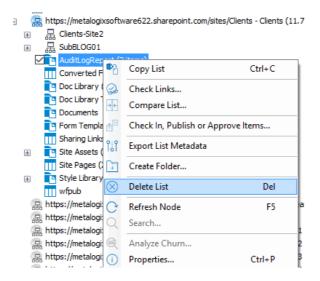
To delete one or more SharePoint Objects:

WARNING: When this action is used at the site level or below, the object will be deleted permanently (i.e., it will not be sent to the Recycle Bin). However, a pop-up dialog will display that allows you to cancel the action.

1. Select the SharePoint object(s) to be deleted.

NOTE: Depending on the type of object, this may be in the Explorer View or in the Items View.

- 2. Either:
 - Press the Delete key on the keyboard.
 - Right-click on the object and choose Delete [Object].



You will be prompted to confirm the action before continuing.

Initiating a Migration

From the Metalogix Content Matrix Explorer View, you can "copy" an object from the source connection then "paste" it to the appropriate location on the target connection. You will then be prompted to <u>configure Copy Options</u>.

You can migrate one or more <u>Exchange folders</u> or individual <u>Exchange items</u>, or <u>migrate Exchange</u> <u>emails directly into a SharePoint Online document library</u>.

Migrating Exchange Folders

You can use Metalogix Content Matrix to migrate Exchange Public Folders to SharePoint. You can migrate entire public folder hierarchies or all items within folders and subfolders.

Some restrictions apply when migrating, Exchange content to SharePoint. For example, calendar items can only be migrated to SharePoint calendars, etc.

To initiate an Exchange Folder migration:

1. In Explorer View, select the Exchange folder(s) you want to migrate.

NOTE: Multi-selection is possible as long as you select nodes at the same level.

- 2. Right-click and choose Copy Exchange Folder.
- 3. Select the SharePoint node(s) to which you want to paste the content.

NOTE: You can migrate to multiple SharePoint target locations. Right-click the target node and select the option. In case you do not want to create a new SharePoint container, you can migrate all items from an MS Exchange Public Folder to an already existing SharePoint list or folder, by selecting the option.

4. Select the appropriate Paste option. Use the information in the following table for guidance.

If	Right-click and choose
you want Metalogix Content Matrix to create a new target SharePoint container as part of the migration	Paste Exchange Folder To List.

If	Right-click and choose
you want to migrate the Exchange Folder(s) to an existing SharePoint list or folder	Paste All Exchange Folder Items. NOTE: This action will migrate all items inside the source folder and all of its subfolders.

Continue with Configuring Copying Options

Migrating Individual Exchange Items

You can migrate individual Exchange Public Folder items into an existing SharePoint folder.

Some restrictions apply when migrating, Exchange content to SharePoint. For example, calendar items can only be migrated to SharePoint calendars, etc.

To migrate individual Exchange items:

- 1. In Explorer View, select Exchange folder containing the items you want to migrate.
- 2. Switch to Items View.
- 3. Select the Exchange item(s) you want to migrate.
- 4. Right-click and choose Copy Exchange Item.
- 5. Select the target SharePoint target list or folder.
- 6. Right-click and choose Paste Exchange Items.

Continue with Configuring Copying Options.

Migrating Emails Directly into a SharePoint Online Document Library

You can migrate Exchange emails directly into a document library that has been created either in SharePoint Online or in the Content Matrix Console.

NOTE: This option is not available when migrating to SharePoint on premises.

Before you can choose a **Paste** operation, Content Matrix must first add the following **Exchange Columns** to the library:

- From
- Subject
- Received

71

- Item Class
- To
- CC
- BCC
- ReplyTo

To migrate Emails directly into a SharePoint Online Document Library:

- 1. Select the <u>email folder</u> or <u>individual email items</u> you want to migrate.
- 2. Right-click and choose the appropriate option (Copy Exchange Folder or Copy Exchange Item).
- 3. Select the target document library.
- 4. Right-click and choose Add Exchange Columns.
- 5. When Content Matrix has finished adding the columns to the library, right-click and choose the appropriate option (Paste Exchange Folder or Paste Exchange Item).

Continue with <u>Configuring Copying Options</u>.

Configuring Copying Options

The **Paste [Object]** dialog provides a tabbed interface that enables you to configure a migration according to your specifications. Available tabs will vary based on the type of migration that you initiated.

Hierarchy Options

You can migrate your source Exchange Public Folder hierarchy to the target SharePoint environment as part of a basic migration. You can also create a sub-site/sub-folder hierarchy based on the number of items in each Public Folder "container."

NOTE: Content Matrix supports target URLs for Public Folders migrated to SharePoint Online of up to 400 characters, which is the maximum length that SharePoint Online allows.

See <u>Creating a Target Hierarchy</u> for more details.

🖺 Configure paste folders se	ettings		x
Hierarchy Options	Hierarchy creation type:		
Site Options	Split containers after:	Folders	
Users And Permissions			
Filter Options			

To configure Hierarchy Options:

- 1. Chose the appropriate **Hierarchy creation type**; that is, whether you want Metalogix Content Matrix to create the folder hierarchy under the target SharePoint node as:
 - Subsites

OR

- Folders
- 2. For **Split containers after:**, specify the maximum number of items to be migrated into one container (a document library, folder, etc.).

NOTE: If the number of items in the source container exceeds the number specified, Metalogix Content Matrix will create a new container at the same level.

Site Options

If you are migrating folders into a site, use the Site Options tab to specify how you want a newly created site to be configured.

NOTE: This tab will not display if you are <u>migrating emails directly into a SharePoint Online document</u> <u>library</u>.

To configure Site Options:

🖹 Configure paste folders se	ttings ×
Hierarchy Options	✓ Create site for migration Site name: Public folders
Site Options	Show site in parent navigation
Users And Permissions	Site template: Basic Search Center (SRCHCENTERLITE#0) ✓ Enable tree view on sites
Filter Options	✓ Use SPO Container Office 365 Upload
General Options	
X Transformations	
Open Existing Job Configuratio	n Save Job Configuration Run Save Cancel
Copen Existing 500 Coninguratio	Run Save Configuration

- 1. Check the **Create site for migration** box to have a new site created under the selected target SharePoint node.
- 2. For **Site name**, enter the display name text as the display name that you want to use for the newly created SharePoint site.
- 3. If you want the newly created site to be included in the navigation settings of the parent SharePoint site, check the **Show site in parent navigation** box.
- 4. Select an available Site template for the new site from the drop-down.
- 5. If you want the SharePoint site to use the tree view setting in the quick launch navigation (lefthand navigation) for the new site, make sure the **Enable tree view on sites** box is checked.

6. If you have connected to a SharePoint Online site and want to migrate using SPO Containers, make sure the Use SPO Container Office 365 Upload box is checked.

NOTE: If you are migrating to a SharePoint on premises environment, this box will be disabled.

Users and Permissions Options

Users And Permissions Options enable you to map Exchange user accounts and permissions (such as Author, Reviewing Author, etc.) to SharePoint user accounts and permissions (such as Full Control, Contribute, Read, etc.).. This means that an Exchange user account can be mapped into a SharePoint user account.

IMPORTANT: Users from the source can only be mapped to the SharePoint target if there is some kind of shared authentication method (such as Active Directory) between them.

If no mappings are specified for any user based metadata that is migrated, Metalogix Content Matrix will use the migrating user account for this metadata instead.

To configure User and Permissions Options:

Configure paste folders se	ttings
Hierarchy Options	Set user mapping
Site Options	Copy permissions Set permissions mapping
Users And Permissions	Skip non mapped permissions
Filter Options	
General Options	
Cransformations	

- 1. Click [Set user mappings...] to display the User Mapping dialog, and follow the procedure for Mapping Users and Permissions.
- 2. If you want to copy user permissions:
 - a) Check the **Copy permissions** box.
 - b) If you want to explicitly map permissions between source and target, click [Set permissions mapping] and follow the procedure for Mapping Users and Permissions.

NOTE: If you choose not to map permissions, Metalogix Content Matrix will be use Automatic Permissions Mapping.

c) If you want any permissions that are not explicitly mapped to be skipped, check the Skip nonmapped permissions box.

NOTE: If this box is not checked, Metalogix Content Matrix will be use Automatic Permissions Mapping for permissions that are not explicitly mapped.

Mapping Users and Permissions

You can explicity map users and permissions when you click the [Edit Users] or [Edit Permissions] button from the Users and Permissions tab.

NOTE: If the source environment has a large number of users, it is recommended that the XML user mapping method be used instead, to help improve performance, and for better control over user mapping.

To map user and permissions:

	Permission Mapping
xchange permissions	Sharepoint permissions
Name	Name
None	Full Control
Owner	Design
PublishingEditor	Edit
Editor	Contribute
PublishingAuthor	Read
Author	View Only
NoneditingAuthor	Approve
Reviewer	Manage Hierarchy
Contributor	Restricted Read
Custom	Restricted Interfaces for Translation
Napping result	💕 Load 🛃 Save
Mailbox permission Sharepoint permi	ission
	OK Cancel

1. Use the information in the following table to determine the appropriate action to take.

NOTE: You can Filter items in each window to narrow displayed lists.

If	Then
you want to load mappings from a	click the Load icon.

If	Then
previously-saved <u>xml file</u>	
you want to manually map individual users or permissions on the source to a target SharePoint user or permission	 From the source list, select the Item that you want to map. From the target list, select a target Item. Click the Map icon.
you are mapping <i>users</i> and want to have Metalogix Content Matrix automatically map source users to target SharePoint users (based on email address)	 From the User Mappings dialog - source list, select the Item(s) that you want to map. Click the Auto icon. NOTES: The Exchange From field will be mapped to the SharePoint Created by field. The Exchange Last modified by user field will be mapped to the SharePoint Modified by field. If a user has already been mapped during a migration, the SharePoint Created and Last Modified fields are maintained on the target.
save mappings in the dialog as an xml file	click the Save icon.

The mappings you create will display in the bottom window. (Note that you can also **Unmap** individually-selected mappings in the bottom window or or **Clear** all mappings from the bottom window.

2. Click [OK] to return to the Copy Options dialog.

Importing Mappings from an xml File

Metalogix Content Matrix can import any desired user or permissions mappings from an XML file. Importing user or permissions mappings from an XML file involves creating an XML file with the desired mappings, then importing that file. This option is generally used if migrating from an environment that has a large number of users and/or permissions

Example Permission mapping XML

```
<?xml version="1.0" encoding="utf-8"?>
<StaticMaps>
<Map ExPermission="Owner" SpPermission="Full Control" />
```

```
<Map ExPermission="NoneditingAuthor" SpPermission="Read" /> </StaticMaps>
```

There could be more Mapped sections within the root StaticMaps section of the XML file. Each Map section defines mapping for Exchange permission into SharePoint permission.

ExPermission - Exchange permission (mandatory)

SpPermission - SharePoint permission (mandatory)

Example User mapping XML

```
<?xml version="1.0" encoding="utf-8"?>
<StaticMaps>
<Map ExUser="adm@tests.local" SpUserDisplayName="adm"
SpUserEmail="adm@tests.local" SpUserIsGroup="False"
SpUserLoginName="TESTS\adm" />
<Map ExUser="test02@tests.local" SpUserDisplayName="test02"
SpUserEmail="test02@tests.local" SpUserIsGroup="False"
SpUserLoginName="TESTS\test02" />
<Map ExUser="test03@tests.local" SpUserDisplayName="test03"
SpUserEmail="test03@tests.local" SpUserDisplayName="test03"
SpUserEmail="test03@tests.local" SpUserIsGroup="False"
SpUserLoginName="TESTS\test03" />
<Map ExUser="test05@tests.local" SpUserDisplayName="test05"
SpUserEmail="test05@tests.local" SpUserDisplayName="test05"
</map ExUser="test05@tests.local" SpUserDisplayName="test05"
</map ExUser="TESTS\test05" />
</map ExUser="TESTS\test05" />
```

There could be more Map sections within the root StaticMaps section of this XML. Each Map section defines mapping of Exchange user (or distribution list) into SharePoint user (or group).

- ExUser Exchange user or distribution list email address (mandatory).
- SpUserDisplayName SharePoint user display name (optional).
- SpUserEmail SharePoint user email address (optional).
- **SpUserIsGroup** group flag whether SharePoint user is a group (optional, default value set to "False").
- SpUserLoginName SharePoint user login name or the group name in case of group (mandatory).

Automatic Permissions Mapping

When you <u>Configure Users and Permissions Options</u>, you can either map user permissions explicitly, or have Metalogix Content Matrix map permissions automatically, as specified in the following table.

NOTE: Custom permission groups will be created in SharePoint.

	Owner	Publishing Editor	Editor	Publishing Author	Author	Non-Editing Author	Contributor	Reviewer	None
			Lis	st permissio	ons				
Manage Lists	X								
Override Check-Out	Х	Х							
Add Items	X	Х	Х	Х	Х	Х	X		
Edit Items	X	Х	Х	Х	Х				
Delete Items	X	Х	Х	Х					
View Items	X	Х	Х	Х	Х	Х	X	Х	
Approve Items	X	Х	Х	Х					
Open Items	X	Х	Х	Х	Х	Х	X	X	
View Versions	X	Х	Х	Х	Х	Х	X	Х	
Delete Versions	X	Х							
Create Alerts	X	Х	Х	Х					
View Application Pages	X	Х	Х	Х	Х	Х	X	X	Х
			Sit	te permissio	ons				
Manage Permissions	X	Х	Х						
View Usage Data	X	Х	Х						
Create Subsites	X	Х	Х						
Manage Web Site	X	Х	Х						
Add and Customize Pages	X								
Apply Themes and Borders	х								
Apply Style Sheets	Х								
Create Groups	Х	Х	Х						
Browse Directories	Х	Х	Х	Х	Х	Х	Х	Х	Х
Use Client Integration Features	х	Х	Х	Х					
View Pages	X	Х	Х	Х	Х	Х	X	X	Х
Enumerate Permissions	X	X	X	X					
Browse User Information	X	X	X	X	Х	Х	X	X	Х
Manage Alerts	X	Х	Х						
Use Remote Interfaces	X	X	Х	Х	Х	Х	X	X	Х
Open	X	Х	Х	Х	Х	X	X	Х	Х
Edit Personal User	х	Х	х	Х	х	х	х	х	Х
			Pers	onal permis	sions				
Manage Personal Views	X	X	X	X					
Add/Remove Private Web Parts		X	X						
Update Personal Web Parts	x	x	х						

Filter Options

Filters can be applied to the migrating content to help limit the content that is migrated. Metalogix Content Matrix Console uses inclusive filters, meaning that any criteria that meets the set filter will be included in the migration. You can apply multiple filters to a single migration action, and the order in which these filters are applied and be modified.

Hierarchy Options	🚺 New filter	00
Site Options	Folder name filter Name contains: Project Using regular expressions Ving as exclude filter	% ۵
Filter Options	Keep folder with subfolders	
General Options		
X Transformations		
Open Existing Job Configuration	Save Job Configuration Run	Save Cancel

To configure Filter Options:

- 1. If you want to apply a filter to the migration, click [New Filter] to display the Select Filter dialog.
- Select the type of filter you want to apply.
 A new dialog displays based on the filter type you selected.
- 3. Enter the filter criteria that you want to apply to the migration.
- 4. To apply another filter, repeat steps 1-3.

Note that you can use the up and down arrows () to change the order in which the filters will be applied.

General Options

Use the General Options tab to configure additional options such as logging, item output type, fields to migrate, and column mappings.

To configure General Options:

Configure paste folders se	ttings
Hierarchy Options	Verbose logging
Site Options	Overwrite existing items Keep all day events
Users And Permissions	Output type: O EML
Filter Options	Select fields to migrate Column Mappings
General Options	
Transformations	

- 1. If you want more detailed logging for the migration action, make sure the **Enable verbose logging** box is checked.
- 2. If you want to overwrite any any existing items that have been migrated to the same target location with the same connection adapter type, check the **Overwrite existing items** box.
- 3. If you want to allow all day events to remain as all day events in SharePoint after the migration, make sure the Keep all day events box is checked.

NOTE: If this box is not checked, all day events will be converted to standard (not all day) events with a duration of 24 hours. This conversion is mainly useful if the migration is between systems using different time zones.

4. Select the desired **Output type**. Use the information in the following table for guidance.

NOTE: Exchange folders can be pasted to a SharePoint list or folder only if that list or folder was created by Metalogix Content Matrix Some restrictions apply when migrating; for example, calendar items can only be migrated to SharePoint calendars, and so on

If you want to migrate items	Then		
in electronic mail (EML) format	select EML.		

If you want to migrate items	Then		
	NOTE: Items migrated in this format do not retain all original MAPI properties of the source Exchange item.		
in message object (MSG) format	 select MSG. NOTES: Items migrated in this format to SharePoint open automatically with Outlook, and the email body, header, and any attachments are fully preserved and maintained within a single envelope in one file on SharePoint. MSG is supported by MAPI, Redemption, and PST connecti9ons, but not by an EWS connection. 		

- 5. To select the fields to migrate to the SharePoint target:
 - a) Click [Select fields to migrate] to display the Select Fields to Migrate dialog.

Select Fields To Migrate							
Document library Calendar	Contact Task						
7 stored filter for	Add >	From	Move Up				
Body Categories	< Remove	Subject Received	Move Down				
Conversation Topic Created	Add All >>	To CC	Restore Defaults				
Culture DisplayCC		BCC ReplyTo					
DisplayTo Importance		ItemClass OutlookID	Apply Content Types				
InReplyTo InternetMessageHeaders		Title	Content Types Applied: 0				
Internet Message Id Is Delivery Receipt Requested Is Draft							
IsDraft IsFromMe	~	< >					
			K Cancel				

NOTE: In MS Exchange, every item has dozens of properties which can be read and potentially migrated to SharePoint. Most of these properties have little meaning for end users, and are not particularly useful in a SharePoint environment, however, users may want to retain them for historical or audit purposes. Metalogix Content Matrix Console offers a default set of properties that will automatically be migrated for every list type.

b) Select additional fields to be created and migrated to the target SharePoint site and/or removed from the list.

EXCEPTIONS: The following properties cannot be removed because they are needed for identifying migrated items:

- **OutlookID** A unique item identifier field that is typically not visible to the end user, in the default SharePoint list or library view.
- **Subject** A string field that lists the item's subject (i.e. mail subject, document name, calendar item title, etc.)
- c) If you want to apply Content Types to the target list, click **[Apply Content Types]** to display the **Content Type Application Options** dialog and follow the procedure for <u>Applying Content Types</u> to Lists and Libraries.

NOTE: This button is available for each list type (Document Library, Task, Contact, Calendar, etc.). Settings defined for one list type do not affect other list types. The content types specified in the pop-up dialog will be applied to the target list and it will be possible to create items based on this content type in SharePoint (see further).

6. If you want to map source to target columns, click **[Column Mappings]** to display the **Edit Column Mappings** dialog and follow the procedure for <u>Mapping Columns</u>.

Mapping Columns

You can map columns from the source connection into separate columns on the target when migrating content into a SharePoint target.

NOTE: Metalogix Content Matrix allows one-to-one column mappings. If a source or target column is already used in a mapping, then that column will no longer be available for any other mappings.

The following types of column mappings can be made:

- Standard column mapping, when you click [Column Mapping] from the General Options tab
- Content Type column mapping, when you click the [...] button from the <u>Content Types Application</u> <u>Options dialog</u>.

To map columns:

1. Use the information in the following table to determine the appropriate action to take.

NOTE: You can **Filter** items in each window to narrow displayed lists.

If you want to	Then	
manually map each individual source column to a target SharePoint column	 From the left (source) window, select the Item that you want to map. From the right (target) window, select an available Item. Click the Map icon. 	
create a new column on the target for any columns that are selected on the source	• From the left (source) window, select the Item that you want to map.	

If you want to	Then		
side	 Click the Target icon to display the New Mapping Target dialog. 		
	• Enter a Column Name .		
	• If you want the column to be created as a site column, check the Create as Site Column , , and choose a column type from the Group drop-down.		
	• If you want to add the column to a content type that exists on the target:		
	 check the Add to content type scoped at target site box AND select the content type to which you want to add the column from the Type drop down. 		

The mappings you create will display in the bottom window. (Note that you can also **Unmap** individually-selected mappings in the bottom window or **Clear** all mappings from the bottom window.)

2. Click **[OK]** once all desired mappings have been made and return to the <u>Configuration Options</u> dialog.

Mapping Items to Content Types

You can specify content types for target items when you click the [...] button from the <u>Content Type</u> <u>Application Options</u> dialog.

To map items to content types:

	Content Type	Application Condition	Item Type	Edit Conditions
	Administrative T		None 💌	Clear Condition
►	Comment		Folders 🗾 💌	

- 1. Select the content type, and click [Edit Conditions] to display the List Items and Documents Where filter dialog.
- 2. Select the filter(s) you want to apply as you would when applying filters to a migration.

NOTE: If you select **[Clear Condition]**, all conditions that are currently applied to that content type will be cleared.

3. Once all filters have been set, click [OK] to return to the Content Type Application Options dialog.

Applying Content Types to Lists and Libraries

You can specify content types for the target list when you click **[Apply Content Types]** from the <u>General Options - Select Fields to Migrate</u> dialog.

Content Type Application Options			X
Content types on target site		Content types to apply	
Announcement Approval Workflow Task (en-US) Audio Basic Page Circulation Collect Feedback Workflow Task (en-US) Collect Signatures Workflow Task (en-US) Document Collection Folder Document Collection Folder Document Collection Folder Document Collection Folder Document Science Status Indicator Fixed Value based Status Indicator Fixed Value based Status Indicator Fixed Value Science Scien		Administrative Task. Comment	
Map source data to new content type co	olumns		
Map source items to new content types			
Remove all other content types from list			
Change default content type: Comme	nt		~
Add unmapped items to the default cont	ent type	OK	Cancel

The left-hand window (**Content types on target site**) displays all of the available content types that exist on the target SharePoint instance that can be applied to the target list. The right-hand window (**Content types to apply**) displays all of the selected content types that will be applied to the list.

To apply content types to lists and libraries:

1. From the **Content types on target site** window, select all of the content types that you want to apply to the list and move them to the **Content types to apply** window.

2. Select any of the remaining options that you want to apply. Use the information in the following table for guidance.

If you want to	Then
map a content type column on the source to a column on the target, as the new content type column	 A. Check the Map source data to new content type columns box. B. Click the [] button to display the Edit Column Mappings dialog. C. Continue with the procedure for <u>Mapping Columns</u>.
map items from the source into a new content type on the target based one or more specified filters	 A. Check the Map source data to new content type columns box. B. Click the [] button to display the Map Items to Content Types dialog. C. Continue with the procedure for Mapping Items to Content Types. NOTE: This option is available only when migrating Exchange folders (not individual items).
change the default content type for the target list or library	 A. Check the Change default content type box B. Select a content type from the drop-down. NOTE: When you check this box, the Add unmapped items to the default content type is automatically enabled and checked.

Transformations Options

You can view, create, and edit Transformers which, as the name implies, "transform" content during migration.

There are several built-in, non-editable transformers that Metalogix Content Matrix uses to process data during the migration. Advanced users can also create custom transformers using PowerShell.

The Transformations tab consists of two main sections: Available Definitions and Applied Transformers For <Object>. The Available Definitions section will list all of the transformation definitions that are available for the current migration action, in alphabetical order. For example, the Site definition is available when migrating at the site level or higher. However, if migrating as a document library or migrating documents, this definition will not be listed.

When one of the Available Definitions items is selected, any transformations that exist/have been configured within the migrating content will appear. Some of the actions that may be grayed out. These grayed out items are mandatory transformations that are run during the course of a normal

migration, and these actions cannot be edited or removed. However, they can be reordered by using the up and down arrows to the right-hand side of the window if you want a transformation action to occur before a mandatory action. Actions that appear and are not grayed are user added transformations, and can be moved, edited and deleted at the users discretion.

In some cases, you could add another instance of an existing transformer, and then have it run in two different locations within the migration process. One could be run in the middle, and it could be run again just before the end.

Using PowerShell to Create Custom Transformations

When you select the **Add Transformer > Invoke PowerShell script** option for an Available Definition, you can use custom PowerShell scripts to create your own transformations beyond the built-in capabilities of the Metalogix Content Matrix.

Specify when you want the script to run by selecting one of the following options:

Begin Transformation – The transformation script will run before the migration of the affected objects, allowing you to read and make changes to objects on the source before objects themselves migrate.

Transform – The transformation script will run while the migration of the affected object(s) is in progress. For example, the user mapping between source and target would be run using the Transform option.

End Transformation – The transformation script will run after the migration of affected object(s), allowing you to read and make changes to objects on the target.

EXAMPLE: The following Transformer consists of two scripts for disabling and re-enabling the Required setting for a column list.

• The first script entered into the **Begin Transformation** tab sets the setting of any columns that are Required to false before copying begins.

Begin Transformations	○ None	
	Use Script From File	
Transform		
End Transformations	Use Configured Script	
	<pre>\$fieldList = New-Object "System.Collections.Generic.List[object]" \$targets.ParentSPList.Fields %{ \$val = \$FieldXml.Attributes.GetNamedItem("Required") if(\$val -ne \$null) { \$enforce = [System.Convert]::ToBoolean(\$val.Value) if(\$enforce) { #We add the outer xml to the list so it doesn't #remain tied to the reference when we update it. \$fieldList.Add(\$FieldXml) } }</pre>	< >

• The second script, entered into the **End Transformations** tab, sets the setting back to true after item migration has completed.

Configure PowerShell Tran	sformer	>
Begin Transformations	○ None ○ Use Script From File	
Transform		
End Transformations	Use Configured Script \$fieldList %{ \$val = \$Attributes.GetNamedItem("Required") \$val.Value = "TRUE" \$targets.ParentSPList.Fields.AddField(\$OuterXml) }	
	OK Cance	el

Saving or Running a Migration Action

When you finish configuring a migration action, you can run it immediately or save a copy of the settings to a job file, which displays in the Job List section. You can then:

• run a migration directly from the <u>Job List</u> section

OR

• create a PowerShell script and schedule it to run as a Windows Scheduled Task

OR

trigger jobs in the Content Matrix Console to run using PowerShell.

You can also <u>save the job configuration as a template</u> so that you can preserve and reuse settings for future migration jobs.

When the migration starts, a status dialog box will appear. The job logs can be viewed (in progress or after the migration is finished) by clicking **[Details>>]**. The Status section of the status box will list a live count for the number of successes, warnings, failures, etc. for the migration. The Progress section of this dialog will list any completions and the type of completion (Sites, lists, items, users, groups, etc.). A Migration Completed message will appear when finished. Click **Close** to exit the status dialog.

IMPORTANT: As of version 9.2, Distributed Migration has been removed from Content Matrix Public FolderEdition, and you will no longer have the option to **Run Remotely**.

Connecting to a Full SQL Job Database

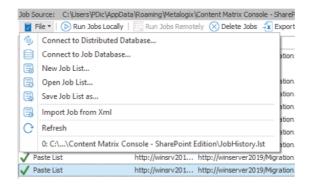
If you are using SQL CE to host your Content Matrix Jobs Database, you will receive a warning in the job log (and as a pop-up if you are running the job from the Console interface).

The use of SQL CE in a production environment is discouraged because of the following limitations:

- It uses a single .list file that is less robust and reliable and may be corrupted after the database reaches 4 GB.
- Data compression is not supported.
- Support for large objects is limited.

To switch to a full-feature SQL Server for the Content Matrix Job Database:

1. From the Job List choose File > Connect to Job Database.



- 2. Complete the Connect to SQL Server dialog:
 - If you are connecting to an on premises SQL database, create (using the New Database option) or select the database you want to use.

Conne	ct to SQL Server	- 6.7 MB) B)
SQL Serv	QAX-SP13-DB14	
SQL Data	abase:	🕏 Database Browser 🛛 🗙
Encryp	t Connection	🕂 New Database 💻 Delete Database
Trust S	erver Certificate	AppMng_Service_DB_5eb0f24837e543b7af9895b0d7c920f3
Authent Os	ication e Current Windows User: A	Bdc_Service_DB_25c9518fcd954ed98ae1de3f5a3ff977 ContentMatrixDistributedDatabase ContentMatrixJobs
⊖ Us	e SQL Server Login:	ContentMatrixMetabase Managed Metadata Service_cc5ad9720af6428e885942040d48605d master model
	F	PerformancePoint Service Application_c99a98c934b54ca8b14021307 Search_Service_Application_AnalyticsReportingStoreDB_cc95d69677
rate rowershe		Search_Service_Application_CrawlStoreDB_f6888c1e880b4e8099bd Search_Service_Application_DB_11b95f6c495c4ad6b9d02031478f9t Search_Service_Application_LinksStoreDB_8002c3dfff6645c7a81793
	Data Migrated	Secure_Store_Service_DB_84a74e84b34d458d990d837263deb4e0
[:] ailures: 1	Bytes Copied: 0 B Bytes Copied: 0 B	SharePoint_AdminContent_457f1dc6-5f86-4913-bbc2-4ca3a79ff3e5 SharePoint_Config StateService_34c0e819a23c420c9fd980275c7e1d77 Empdb
		TranslationService_c03a7285b51c462593816e9cdf773ef9 Iser Profile Service Application_ProfileDB_3b0e0ac98bfa4c05928594 Iser Profile Service Application_ProfileDB_3b0e0ac98bfa4c05928594 OK Cancel

 If you are connecting to an Azure SQL database, select the database that has been created in Azure Portal for use by Content Matrix. (Note that the New Database and Delete Database options will be disabled.)

Jatabase Browser	×
🕂 New Database 🛛 📟 Delete Database	$\mathbf{)}$
ContentDatabase ContentDB2013 master	

3. If you want to use an <u>encrypted connection</u> to the database, check the Encrypt Connection box.

NOTE: If the certificate used for encryption is not trusted, you will also need to check the Trust Server Certificate box.

- 4. Select an Authentication method for connecting to SQL server.:
 - Use Current Windows User

OR

• Use SQL Server Login

NOTE: Currently, Use SQL Server login is the only valid option for an Azure SQL server.

5. Click [OK].

Saving a Job Configuration as a Template

You can create job configuration templates for a set of selected settings which can be saved and reused, including any options that are not normally preserved using the Preserve Configuration Options option (in the ribbon Settings menu).

These templates can also be moved to another machine and used with a separate install of Metalogix Content Matrix Console (provided that it is the same Edition of Metalogix Content Matrix, and the same version number or greater).

To save a job configuration template:

1. After initiating a migration, complete the Configure (Object) Copying Options with the settings that you want to include in the template.

Save Job Configuration	x
Enter a name for the configuration	
OK Cance	1

2. Click [Save Job Configuration].

Here you can set the **display name** for the job template. This is **not** the actual file name, but it is the name that Metalogix Content Matrix will use to list the template.

NOTE: In most cases, when a job template is saved by Metalogix Content Matrix it will be saved to the following location:

C::\Users\<User>\AppData\Roaming\Metalogix\Metalogix Content Matrix Console - <Product> Edition

However, it is highly recommended that you do not interact with this system location. If you are trying to save a job template so it can be <u>exported</u> to another system the template can be exported from the <u>Manage Job Configurations</u> dialog.

3. Enter the desired display name value and click [OK] to continue.

Once the **save** is complete, you will be returned to the **Configure <Object> Copying Options** dialog where the migration can either be **Run** or **Saved**.

The saved job templates will now be visible in the Manage Job Configurations dialog.

NOTE: If you are looking to save a job template and move it to another system for use, this should be done using the <u>Export</u> option in the <u>Manage Job Configurations</u> window. Additionally, if you are trying to <u>Import</u> a job template from another system, this must also be done from either the <u>Manage Job</u> <u>Configurations</u> dialog or it can be imported when <u>applying a template</u>.

Applying a Job Template

Any job templates that have been <u>imported</u> or <u>saved</u>, and are available in the <u>Manage Job</u> <u>Configurations</u> dialog can be applied to another migration of the same type. For example, if migrating at the site level, you would not be able to use a job template that is created for a migration at the list level. It would only be able to use a template that migrates at the site level.

The source and target connection types do not apply directly to a job template, so it does not matter if the connection types for the new migration are the same as the connection types for the job template. If the connection types are different than any options that are not applicable for the connection types that are being used will not be available, but all other options will be set.

 After initiating a migration, click [Open Existing Job Configuration] in the bottom left corner of the Configure <Object> Copying Options dialog to display the Select Job Configuration to Apply dialog.

NOTE: Any options you have specified directly in the dialog will be overwritten once a job template is applied.

Select Job Configuration	n To Apply	×
Config_Template_Test_01		
Job Template		
Import	OK	Cancel

The dialog lists all of the job templates that are currently available for the migration type (i.e. a site, list, item, etc. migration), as well as only the templates for the specific Edition of Metalogix Content Matrix that is being used.

2. Select the desired job template and click [OK].

You will be prompted to confirm your action before continuing. Remember that if you choose to apply the template, any other settings that you entered directly in the **Configure <Object> Copying Options** will be lost.

The **Configure <Object> Copying Options** dialog will now reflect all of the template options. Any additional configuration options can be set or modified, and the migration can continue as normal.

Managing Job Templates

Metalogix Content Matrix Console job templates can be managed in the **Manage Job Configurations** dialog. This dialog allows users to **Import**, **Export**, **Delete**, or **Filter** any job templates. Below is a breakdown of the available options in the **Manage Job Configurations** dialog.

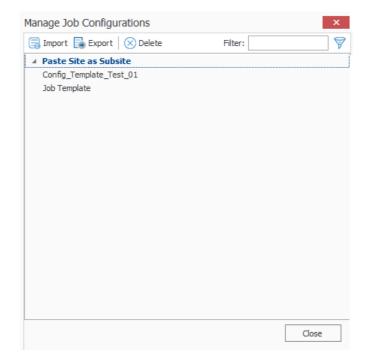
- **Import** This button allows users to Import a job template. The imported job template must be from the same Edition of Metalogix Content Matrix Console. For example, if users are importing a template into SharePoint Edition then the template must have been exported from SharePoint Edition.
- **Export** This button allows users to **Export** a job template. The export will create an XML file in a desired folder location so the file can be copied and placed into another location as needed.
- **Delete** This button will **delete** any selected job templates from Metalogix Content Matrix Console. When deleting a template, a **confirmation** dialog will open and must be confirmed before the templates are deleted. Deleting will **permanently delete** the selected templates from Metalogix Content Matrix Console.

• Filter - This is a text box that allow users to enter a value that Metalogix Content Matrix will filter the job templates against. The filter will only display items that contain the specified value. There is a Filter icon to the right-hand side of the filter text box. Clicking this icon will apply the filter text value to all of the job templates listed in the **Manage Job Configurations** dialog, so only the templates that contain/include the matching filter value will be shown. Filtering can be cleared by removing the text value from the filter text box, and clicking the filter icon button.

Exporting a Job Template

To export a job template:

1. In Metalogix Content Matrix's ribbon toolbar, switch to the **Settings** tab and click **[Manage Job Configurations]** button to display the **Manage Job Configurations** dialog.



- 2. Select the template you want to export then click the **Export** button at the top of the **Manage Job Configurations** dialog, .
- 3. Navigate to the desired folder location where you want to save the job template, enter a File name, and click [Save].
- 4. The job template XML file will be saved to the selected folder location, and Metalogix Content Matrix will return to the Manage Job Configurations dialog. Any additional importing, exporting, or deleting of job templates can be done. Click Close to return to the main Metalogix Content Matrix window.

Now that the job templates have been **exported** and saved to a folder location they can be manually moved to another location as required.

Importing a Job Template

Only templates that have been created from the same Edition of Metalogix Content Matrix Console can be imported. For example, a job template from SharePoint Edition cannot be used in eRoom Edition or Public Folder Edition, it can only be imported into SharePoint Edition.

To import a job template:

1. In Metalogix Content Matrix's ribbon toolbar, switch to the **Settings** tab and click **[Manage Job Configurations]** button to display the **Manage Job Configurations** dialog.

Manage Job Configurations		×
📑 Import 📑 Export 🛛 🛇 Delete	Filter:	8
Paste Site as Subsite Config_Template_Test_01 Job Template		
		Close

2. Click the **Import** button at the top of the **Manage Job Configurations** dialog, navigate to the folder location for the template XML file, then click **[Open]**.

The job template will be added to the list of templates in the **Manage Job Configurations** dialog. The template will be listed using the same **Display name** that was used when the task was created on the original system, and will **not** have its file name displayed.

The job template is now imported and can be <u>applied</u> to any migration.

Importing and Exporting Migration Jobs

From the Job List, you can export a job to an xml file. This functionality allows you to:

- Copy a job from one instance of Metalogix Content Matrix to another (as long they are for the same Edition).
- Manually modify a job, then re-import it.

To export a job to an xml file:

- 1. In the Job List, select the job you want to export.
- 2. Right-click, and choose **Export selected job to xml**.

The xml file will automatically open in whatever program is set as the default application for xml files, and it can be saved to any desired location.

To import an xml file to the Job List:

1. Make sure the file you want to import uses a different ID value than any existing Jobs (this should only be an issue if the XML file was previously exported from the same Metalogix Content Matrix Console).

NOTE: If the xml file that is being imported contains the same **ID** value as an already existing Job, then the import will fail.

- 2. From the Job List menu, choose File > Import Jobs From Xml.
- 3. Select the xml file to import.

If the import is successful, the job will be listed in the Job List section. If unsuccessful, an error message will be given.

Refreshing the Jobs List

NOTE: The refresh is applied to whichever job list Metalogix Content Matrix is currently connected to.

To refresh the Job List:

- 1. From the **Manage Queue** dialog, select a job in the Job List. The row selector icon and the highlighted row indicates the selected row.
- 2. From the Job List menu bar, choose **File > Refresh**.

If the status of the job has changed, the Status value will indicate the new status of the job.

Creating and Running a PowerShell Script from the Jobs List

In order to create a PowerShell (PS) script for Content Matrix, a job list (or batch file) must first exist in the <u>Job List</u> section of the Content Matrix Console. Once created, it can be <u>run from the PowerShell</u> <u>console</u> or scheduled to <u>run as a Windows Scheduled task</u>.

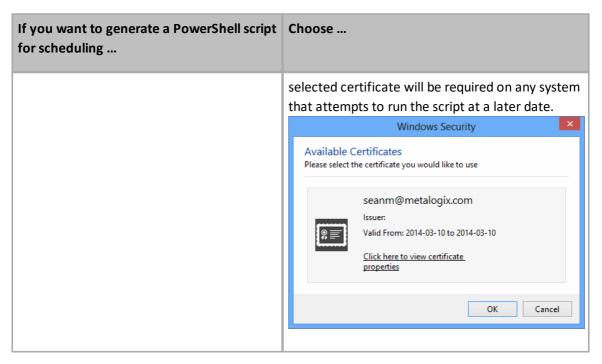
NOTE: It is recommended that the connections to the source and target environments have the **Remember my password check-box** selected. This is to ensure that the PowerShell scripts will be able to establish a connection to both the source and target environments when they are being run. If a password is required and this check-box is not set, the migration will fail. However, users can manually enter this value into the PowerShell script itself if the option was not checked when the script was first generated.

To create a PowerShell script:

- 1. In Job List, and select the job (or jobs) that you want to run in PowerShell.
- 2. Click the **Generate PowerShell Script** button in the Job List tool bar, or right-click on one of the items and select Generate PowerShell Script from the context menu.
- 3. From the drop-down, choose the appropriate option. Use the information in the following table for guidance.

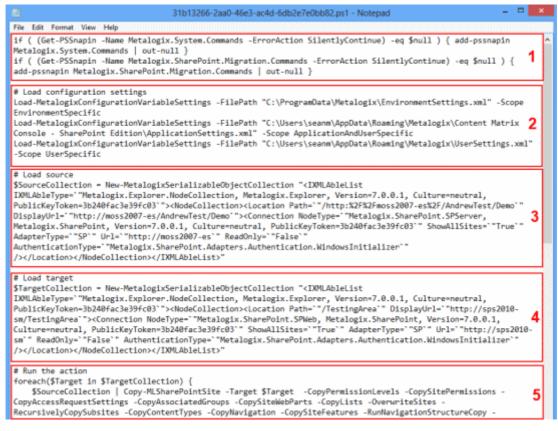
nt Matrix Console - Sha	rePoint Edition\JobHistory	.lst		
xport Excel 🛃 View				Generate PowerShell Script 🔹 🔿 Nav
tarted	Status	Log St	1	For Current User and Machine
/12/2021 3:00:44 AM	Done	Lists C	Ţ	For Current Machine
/18/2021 2:54:13 AM	Done	Comple	۵	For Certificate

If you want to generate a PowerShell script for scheduling	Choose
that can be used only by the currently logged in User Account on the machine it is generated on	For Current User and Machine. NOTE: Any PowerShell scripts that are generated for scheduling through this option can only be run by the logged in user on the machine they were generated on.
that can be used by any User account on the machine it is generated on	For Local Machine.
that can be used by any User account on any machine that has the certificate that is specified when the script is created	For Certificate. When you save the PowerShell script using this method you will be prompted to select a security certificate that exist on that machine. The



Once the PS script generation type is selected, Content Matrix Console will generate a PS script for the select Job, which will be written to a Microsoft Notepad file. If multiple jobs are selected they will all be written to the same file.

4. Choose File > Save As... and select any desired save location for the PowerShell script. Give the file any name you want, but change the file type to .PS1.



The PowerShell (PS) script itself contains five sections. They are:

Saving or Running a Migration Action

- Section 1 This first section at the top (starting with an "if" statement) runs a check in the PowerShell console to make sure that the Metalogix <u>snap-ins</u> have been added. If they are not found then it will add them to that instance of the PS console.
- Section 2 Load Configuration settings This section will find and load all of the Metalogix Content Matrix client application configuration settings into the PowerShell script. These are the client application's environmental settings and not the migration/action settings.
- Section 3 Load source This section will load all of the data for the source environment connection.
- Section 4 Load target Similar to the previous section, this will load target environment's connection information.
- Section 5 **Run the action** Last is the "Run the action" section. This last section will contain all of the other data for the migration, such as the type of migration (i.e. a site migration, list migration, item migration, etc.) and all of the settings and configurations for the migration/action that is being run. This includes things like settings for versions, content types, permissions, etc.

Now you can <u>run</u> or <u>schedule</u> the PowerShell script.

Running a PowerShell Script

Once a PowerShell script has been created, you can run it from the PowerShell console.

To run the PowerShell script:

NOTES:

- If you have more than one edition of Content Matrix, only one edition can be run per PowerShell session.
- If Content Matrix settings is changed, in order to apply new settings all PowerShell sessions must be restarted.

To add the PowerShell cmdlets for the application framework:

- 1. Open a Powershell ISE or PowerShell console session.
- 2. Add the PowerShell snap-ins by pasting in the following text:

```
if ( $PsVersionTable.PSVersion.Major -lt 3 ) { Write-Host "Windows
PowerShell Version 3.0 or later needs to be installed in order to run
Content Matrix PowerShell scripts."; exit; }
if ( (Get-PSSnapin -Name Metalogix.System.Commands -ErrorAction
SilentlyContinue) -eq $null ) { add-pssnapin Metalogix.System.Commands |
out-null }
if ( (Get-PSSnapin -Name Metalogix.Exchange.Commands -ErrorAction
SilentlyContinue) -eq $null ) { add-pssnapin Metalogix.Exchange.Commands
| out-null }
```

99

if ((Get-PSSnapin -Name Metalogix.SharePoint.Commands -ErrorAction SilentlyContinue) -eq \$null) { add-pssnapin Metalogix.SharePoint.Commands | out-null }if (Get-Command Set-MetalogixJobPrerequisites -ErrorAction SilentlyContinue) { Set-MetalogixJobPrerequisites -Value "Content Matrix Console - Public Folder Edition" }

- 2. Set the directory to the location where the PowerShell script is located.
- 3. Enter the name and extension of the PowerShell Script (at its specified location), and the script will run.

In the case that you are running a script from the same directory you would use the format: . \[ScriptName].ps1. So if your PowerShell scrip was named "ResourceScript.ps1" then you would enter: .\ResourceScript.ps1 into the window, and the script would run.

If the script is in a different directory, you would enter the location of that directory relative to your current location, followed by the script name. For example, if your prompt is at the "C:\" drive and your PowerShell script, named "ResourceScript.ps1" is on the desktop you would enter: C: \Users\[User]\Desktop\ResourceScript.ps1, and the script would run.

NOTE: In some cases the Execution Policy may prevent you from running a PowerShell script. In this case you will likely see the message: [Script].ps1 cannot be loaded because the execution of scripts is disabled on this system. Please see "get-help about_signing" for more details. In this case, running the command: set-executionpolicy RemoteSigned should change the existing script policy to allow you to run these scripts for your location. It is advised that you check with your System Administrators before doing this to ensure that no Company Policies are being broken by this action. If this is an action you need to take, you should only need to run this command once.

The migration will begin, and any warnings and/or errors that are encountered in running the script will be displayed in the PowerShell window.

Scheduling a PowerShell Script to Run as a Windows Scheduled Task

Once a PowerShell script has been <u>created</u>, you can run any migration job as a scheduled task on the system that the client application is installed on. This can be any migration action that exists in the Job List section, whether it's a migration job that was saved or a job that was previously run.

The **Generate PowerShell Script** option saves configurations for the selected job(s) as a PowerShell script. After the script has been saved, you must create a Windows Scheduled task directly in the Windows Task Scheduler.

Once these jobs have been created as scheduled tasks they can no longer be viewed (as scheduled tasks) in Metalogix Content Matrix. If you want to make any other modifications or remove the task you can do so directly in the Windows Task Scheduler. If a task has been scheduled, the system will be able to run the task at the appointed time(s), regardless of whether Metalogix Content Matrix client application is open.

To schedule a PowerShell script to run via the Windows Task Scheduler:

- 1. On the system where the scheduled task will run, open the Windows Task Scheduler.
- 2. Choose Actions > Create Task.
- 3. Enter a task Name and Description.
- 4. In the **General** tab, go to **Security** options and specify the user account that the task should be run under. Change the settings so the task will run regardless of whether the user is logged in.
- 5. Select the **Triggers** tab, and click **[New]** to add a new trigger for the scheduled task. This new task should use the **On a schedule** option. The start date can be set to a desired time, and the frequency and duration of the task can be set based on your specific needs. Click **[OK]** when your desired settings are entered.
- 6. Select the Actions tab and click **[New]** to set the action for this task to run. Set the Action to **Start a program.**
- 7. In the Program/script box enter "PowerShell."
- In the Add arguments (optional) box enter the value ".\[Your PowerShell Script Name]." For example, if your PowerShell Script is named "Migration1.ps1" then you would enter ". \Migration1.ps1" as the value.
- 9. In the Start in (optional) box, add the location of the folder that contains your PowerShell script.

NOTE: The location used in the Start in box will also be used for storing the scheduled task run times, the job history for the copies, and any additional logging that may occur.

- 10. When all the desired settings are made, click [OK].
- 11. Set any other desired settings in the Conditions and Settings tabs.
- 12. Once all the desired actions have been made (or added), click [OK].

The task will be immediately set, and is ready to run.

After the scheduled task has run, a new entry will be added to Metalogix Content Matrix's Job List section.

Triggering a Job in the Content Matrix Console to Run Using PowerShell

As an alternative to generating a PowerShell script, you can use PowerShell to trigger jobs that have been created in the Content Matrix Console.

To access the PowerShell cmdlets for triggering jobs to run:

Open a PowerShell or PowerShell ISE session and <u>add the PowerShell snap-ins for the application</u> <u>framework</u>.

The following cmdlets for running jobs are now available:

- Get-MLJobs
- Invoke-MLJob

To retrieve information about jobs in the Console:

- 1. Select (from the PowerShell ISE Command Window) or enter Get-MLJobs.
- 2. (Optional) Enter one or more of the following parameters if you want to filter jobs:
 - JobNameOrTitle
 - JobStatus
 - Source
 - Target

NOTE: If you do not apply filters, all jobs in the Console will be retrieved.

3. Run the cmdlet.

Example scripts:

Get-MLJobs

```
Get-MLJobs -Source https://outlook.office.com/User mailbox/Drafts -Target https://metalogixsoftware.sharepoint.com/sites/HR/Ma -JobStatus Failed - JobNameOrTitle "Paste Exchange Folder"
```

To run one or more jobs:

- 1. Select (from the PowerShell ISE Command Window) or enter Invoke-MLJob.
- 2. Select or enter additional parameters. Use the information in the following table for guidance.

Parameter	Notes
JobID	 You can obtain the JobId by running the Get-MLJobs cmdlet. You can run multiple jobs using the PowerShell Pipeline variable.
JobStatus	Valid statuses are: • Running • Warning
	 Not Running Failed Paused Queued Aborted Triggered

Parameter	Notes							
	 Aborting Cancelling Done Cancelled 							
Quiet	Use this parameter if you do not want to display a status of the job as it is running.							
RunRemotely	Use this parameter if you want to submit the job for Distributed Migration. NOTE: This option is valid for SharePoint Edition only.							

3. Run the cmdlet.

Example Scripts

Invoke-MLJob -JobId '92416012-4b69-4d4e-b3c2-984cde279909'

```
Invoke-MLJob -JobStatus Failed
```

Run multiple jobs using the PowerShell pipeline variable:

```
Invoke-MLJob -JobID 'c8176dd1-f1fd-484c-bc66-c002f5406f05' -RunRemotely
'5ca0d97f-4d1d-445f-a6d9-3292abe89a6f', '0a2e0874-a759-46f4-b459-
bb98ec2991ad' | Invoke-MLJob '30bf6d71-0a28-4012-b612-2d22562b5b46',
'0b094765-46e0-4919-8922-cc5fe841e1f5' | Invoke-MLJob -Quiet
```

Job Log Files

You can view the progress of a migration tab in real-time via interactive log files. The logs are fully searchable.

To view an interactive log:

After starting an action, click **Details>>** in the progress dialog box.

NOTE: All logging in Metalogix Content Matrix is done through jobs. If a job list is deleted from the Job List, all logging for those actions will also be deleted. There is no backup for the job lists, unless the job is manually saved to another location. Once a job list is deleted, all logging for the actions within that job list are gone. Metalogix Content Matrix will automatically hold any job lists created through any copy or compare actions, in the Job Lists section, and these job lists can only be deleted through the appropriate Delete commands. The job lists can also be manually selected and saved through the Job list section.

There are two types of jobs in Metalogix Content Matrix:

A **job list** is a collection of job items. A Job list is created for each copy or compare action that is made. Any "Copy" action/job that is in the Job List section can be used as the base of an incremental copy job. Job items can be viewed in the Log Viewer, by opening a job list. There are three basic ways to open a job list to access the Log Viewer:

- Double-click on a job list.
- Select a job list, then in the Job List section of the toolbar click View Log.
- Select a job, right-click, and choose View log.

Job items are job files, or logging, for individual items within the scope of an action. For example, if a SharePoint site is copied, there would be a job item for adding each list and each item in that list, and one job item for adding or creating each site or sub-site. If a SharePoint list with five documents is copied, then there would be a job item for adding/creating the list, and then one job item for adding each of the documents.

	Time	Operation	Item	Source	Target
/	5/18/2017 1:38:24 PM	Loading source an	Paste Site as Su	http://qa2013farm4:38876	https:, /
/	5/18/2017 1:38:33 PM	Copying Site	SubTwoA	http://qa2013farm4:38876	https:,
1	5/18/2017 1:39:13 PM	Copying Site Colu	SubTwoA	http://qa2013farm4:38876	https:,
/	5/18/2017 1:40:15 PM	Adding List	Shared Documents	http://qa2013farm4:38876	https:,
/	5/18/2017 1:41:06 PM	Copying Column D	Shared Documents	http://qa2013farm4:38876	https:,
/	5/18/2017 1:41:09 PM	Adding List	SiteAssets	http://qa2013farm4:38876	https:,
/	5/18/2017 1:41:59 PM	Copying Column D	SiteAssets	http://qa2013farm4:38876	https:,
1	5/18/2017 1:42:02 PM	Adding List	SitePages	http://qa2013farm4:38876	https:,
/	5/18/2017 1:42:59 PM	Setting Content T	ContentTypes	http://qa2013farm4:38876	https:,
/	5/18/2017 1:43:08 PM	Copying Document	Home.aspx	http://qa2013farm4:38876	https:,
4	5/18/2017 1:43:15 PM	Adding referenced	i:0#.f members		https:
ć					· · · · · ·

Job items are job files, or logging, for individual items within the scope of an action. For example, if a SharePoint site is copied, there would be a job item for adding each list and each item in that list, and one job item for adding or creating each site or sub-site. If a SharePoint list with fie documents is copied, then there would be a job item for adding/creating the list, and then one job item for adding each of the documents.

From the Log Viewer you can select and view any job items that exists within that job list.

NOTE: Some actions in Metalogix Content Matrix have the ability to run with **Verbose Logging**. This option will increase the size of the log file.

Log Item Details

To view Log Item Details:

1. From the Log Viewer, select the item whose details you want to view.

- 2. Use one of the following options:
 - Double-click on the item.

OR

Right-click and choose View Job Item.

OR

If the job is currently running, click Details>>.

🗟 Log Item Details							-		×
OPERATION	ST	ATUS			ITEM NAME				
Copying Content Type Reso	ource Fil Fa	iled			docsethomepa	ge.asp	x		
TIME STARTED	TI	ME FINISHED			BYTES COPIEL	D			
11/23/2021 5:07:50 PM	11	/23/2021 5:07:5	52 PM		0 B				
SOURCE									
http://sp2016/sites/Ishan 1	Test/ cts/docum	ent%20set							
TARGET									
https://metalogixsoftware6	23.sharepoint.co	om/sites/Ishan_S	C Den	ioTarget/Ishan	Test/ cts/Docu	ument S	Set		
INFORMATION									
Exception: Access denied.									~
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		1							· ·
DETAILS VIEW CONTE Error: Access denied.	NT COMPARER								
Stack: at Microsoft.Sharef at Microsoft.SharePoint.Cl at Microsoft.SharePoint.Cl at Metalogix.SharePoint.A (ClientRuntimeContext cont \repos\ContentMatrix\Metal at Metalogix.SharePoint.A SharePointAdapter callingAc \Metalogix.SharePoint.Adap	lient. ClientReque lient. ClientConte (dapters. CSOM2) ext, Int32 retry (ogix. SharePoint. (dapters. CSOM2) (dapter) in C: {Use (ters. CSOM2013)	est.ProcessRespo xt.ExecuteQuer 013.ClientConte: Count, Dictionary Adapters.CSOM 013.CSOMAdapt rs\ishank\source \CSOMContext.c	onse) y0 xtExter y`2 priv 2013\0 ter.Calli e\repos ts:line 1	rateData, Int3 lientContextEx ExecuteQuery(ContentMatrix 73	QueryWithIncrem 2 delay) in C:\Us (tension.cs:line 7 ClientRuntimeCo	nentalR ers\jsh 70 ontext (ank\sou ctx,		
at Metalogix.SharePoint.Adap at Metalogix.SharePoint.Adap at Metalogix.SharePoint.Adap at Metalogix.SharePoint.Adap at Metalogix.SharePoint.Adap at Metalogix.SharePoint.Adap at Metalogix.SharePoint.S	dapters.CSOM20 tream ms) in C:\/ tres.CSOM2013 dapters.CSOM20 ns) in C:\/Jsers\is tres.CSOM2013 PFileCollection.A	013.CSOMAdapt Users\ishank\sou (ItemsWriter.cs: 013.CSOMAdapt shank\source\rep (ItemsWriter.cs: (dd(String fileXml	ter.Sav urce\rep line 322 ter.Add pos\Con line 310	eBinaryDirectW bos\ContentMa 28 FileToFolder(St ntentMatrix 00	ring sFileXML, By	yte[] fil	leConte		9
	Search KBs	Сору] [Prev	Next] [Clos	se	

The Job Details dialog contains the following information:

- **Operation** The last operation performed on the item.
- **Status** The status of the item. If a compare action is being performed then this could be: completed, different, or missing.
- Item Name For items, the Item ID. For documents, the Filename.
- Time Started The time the action for the item was started.
- Time Finished The time the action for the item was finished.
- Bytes Copied The bytes (B) that were copied in the action. This will be displayed in KB in some cases.
- **Source** The Source URL for the item.

- Target Target URL for the item.
- Information Provides an informational message about the item, such as. This section will provide a description for any different and/or missing attributes/metadata for an item.
- Details View Any errors that were encountered with the item when an action was performed.
- **Content Comparer tab** Any differences between Source and Target content (from a compare action). You can display this information in either a **Grid View**, which displays a metadata property grid for the item, or as a **Text View**, which displays a XML text format of the item. This option is most useful if **Verbose Logging** has been checked

You can also:

- Use [Search KBs] to have Content Matrix query the <u>Quest Support Knowledge Base</u> for relevant articles if you selected a failed item.
- Use **[Copy]** to copy all of the item information and details (including the Details tab) into the system's clipboard. You can then paste the information when it can then be pasted to another location. When pasted the information will look similar to that of the actual Log Item Details dialog. This can be used for easy copy/pasting of an items migration log details.
- Use [Prev] and [Next] buttons to move to the previous or next item on the list (if applicable).

Exporting Jobs to an Excel File

You can export a selected job or multiple jobs from the Job List section into a Microsoft Excel file. The export will include all of the operations within each job (whether it is a migration action or some other action), and their details. This is to help users better understand their migration data and results, and provides another way to review the resulting logs.

In addition to the log details that are provided, there are also a number of tables and charts that can be accessed in different tabs within the Excel file. These tables and charts will help breakdown the information in a more visible manner.

To export one or more jobs to an Excel file:

- 1. In the <u>Job List</u>, select the job(s) you want to export.
- 2. Use one of the following options:
 - From the Job List menu, select Export Excel

OR

- Right-click and choose Export selected job to Excel.
- 3. Save the file to the desired location.

By default the Excel file will open after it has been created. This process may take a few minutes depending on the size of the selected job(s) and the number of actions in the log(s).

Information in Exported Excel Files

When an Excel file is exported from the Metalogix Content Matrix Job List there are a number of page tabs that can be viewed. Each page tab will display a different set of data, and some of these tabs will also display pivot graphs (with pivot tables behind them).

NOTE: The data within all of these Excel tabs (both the tables and the graphs) should only be considered a starting point when looking at your migration data. You can modify the existing graphs through various methods, such as applying filters, changing the data values, etc. You can also take the "raw" data from the LogItems tab and use it to create your own graphs or sets of data as required.

The exported file contains the following tabs:

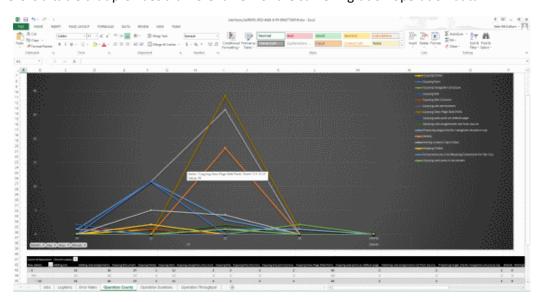
- Jobs All of the specific jobs that are included in the export. This includes migration jobs as well as other actions.
- LogItems All of the operations that have been run by Metalogix Content Matrix and provide all of the logging details that are available in the Log Viewer and Log Item Details windows. Some examples of these operations are: adding lists, adding content types, copying documents, adding users, updating lists, etc.

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	3e0f5305-9f20-40d8-b10f-999d7758010f	07b00714-795d-494a-	9990-c219659497Ye	2014-03-05	13-11-07	3	5	13	11 201	4-02-05 12	11:07	0.00.01
	3e0f5305-9f20-4068-b10f-99967758010f	b1f299ce-519b-4110-5	52485166973be90	2014-05-05		3	5	13		4-03-05 13		0.00.05
	3e0/8305-9/20-4068-6101-99967758010F	#403d7a-3baa-4af0-a1	77-64a37eca070b	2014-03-05		3	5	13		4-03-05 13		0.00.08
	2e0f8305-9f20-40d8-6101-999d7758010f	730370515241-4369-9	059-edad6d656476	2014-03-05	13 11 09	3	5	13	11 201	4-03-05 13	11:24	0:00:15
	3e0f5205-9f20-40d8-510f-999d7758010f	b30681/b-2962-42cf-8	7e-ebc96e45241f	2014-03-05	12-11-12	3	S	12	11 201	4-02-05 12	11:23	0:00:30
	3e045305-5420-4048-6104-89547758010f	e3c9b256-4781-4db5-	#55-3e037e8748#4	2014-03-05	13-11-17	3	5	13	11 201	4-03-05 13	11:18	0.00.01
	3e0/8305-9/20-4048-b104-9996/7758010f	1e254217-75084691-e	164-84c96d516fc7	2014-03-051	13-11-18	3	5	13		4-03-05 13		0.00.00
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	2e0f5205-9f20-40d8-b30f-999d7758030f	e2992cfd-027d-4967-9	23c-s6c8b98815ec	2014-03-05	12-11-22	3	5	13	11 201	4-02-05 12	11:22	0.00.00
	3e045305-5420-4048-b104-5556/7758010f	311db975-5665-4e51-	ee55-1x9405054361	2014-03-05	13-11-23	3	5	13	11 201	4-03-05 13	11:24	0.00.00
	5+048305-5420-4048-6104-555677580104	16d7686b-340a-452a-5	w5d-e58e5fd1eebb	2014-03-05	13-11-24	3	5	15	11 201	4-03-05 13	11:24	0.00.00
	3e018305-9f20-4048-b101-999d7758010f	451471/1-eb7e-4371-9	39e-bf2ffc5d2aa5	2014-03-05	13:11:26	8	5	13	11 201	4-03-05 13	11:26	0.00.00
	2e0f2205-9f20-40d8-b30f-999d7758030f	ab4d2a9f-7cb8-4485-9	957-db0e75744245	2014-03-05	12-11-26	3	5	12	11 201	4-02-05 12	11:29	0:00:02
	3e045305-5Y20-4048-b104-899d7758010f	dc3c9381-57cc-4890-a	0b8-c0ba729H9b5	2014-03-05	13:11:27	3	5	13	11 201	4-03-05 13	11:27	0.00.00
	5e0/8305-5f20-4048-6104-5556/7758010f	Sel0ce15-be7d-47c7-8	6df-3dbde224/661	2014-05-051	13:11:27	3	5	13	11 201	4-03-05 13	11:32	0.00.05
	3e0f8305-9f20-4048-b101-999xf7758010f	6995e244-402a-4443-	9803-76674106a630	2014-03-05	13:11:29	3	-5	13	11 201	4-03-05 13	11:32	0.00.08
	2e0f2205-9f20-40d8-b10f-999d7758010f	c3df5c8d-5b91-4e85-9	4a6-784d6000ed9f	2014-03-05	12-11-21	3	6	12	11:201	4-02-05 12	11:33	0.00.03
	3e040305-9f20-4048-b10f-999d7758010f	59648e90-27d3-49bf-8	587-b171d901ee22	2014-03-05	13-11-33	3	5	13	11 201	4-03-05 13	11:05	0.00.03
	3e0/6305-8/20-4048-6104-8596/7758010/	6beebc60-45e5-43ce-8	275-2661se5ee2e6	2014-05-05	13-11-55	3	5	13	11 201	4-03-05 13	11:55	0.00.00
	3e0/8305-9/20-4048-6101-999-07758010f	0fc235c4-e42f-4550-av	a5-2562x0e25266	2014-03-05	13 11 38	8	5	18	11 201	4-03-05 13	11.38	0.00.05
	2e0f8205-9f20-40d8-b30f-999d7758030f	9e897cd1-ba3f-4d43-b	828-b694aaa6f540	2014-03-05	13:11:34	3	6	13	11 201	4-03-05 13	11:36	0.00.02
	3+040305-9420-4048-6104-999d7758010f	b4fsS0fs-Le64-4Scd-8	63d-#91924b4865f	2014-03-05	12:11:14	3	s	13	11 201	4-03-05 12	11:14	0.00.00
	3e045305-8420-4048-6104-899-077580104	e5f93b1-5b28-4403-e8	3b-490bc948969a	2014-05-05	13-11-55	3	5	15	11 201	4-03-05 13	11:55	0.00.00
	3e0/8305-9/20-4048-6104-999-07758010/	267257a3-a843-46274	9547-67c1c113fef5	2014-03-05	13:11:35	3	5	18	11 201	4-03-05 13	11:36	0.00.00
	3e0f8305-9f20-4048-610f-999d7758010f	19197e51a111-4483-a5	22-c405303c64af	2014-03-05	13 11 37	3	5	13	11 201	4-03-05 13	11:38	0.00.00
	3+045305-9420-4048-6104-999477580104	ds242dbf-4b11-4823-4	768-3c290026d2be	2014-03-05	12-11-26	3	S	13	11 201	4-03-05 12	11:41	0.00-03
	3e045305-9420-4048-6104-999-077580104	032d94c5-efcd-4142-5	#d0-657f1233f14f	2014-05-05	13-11-38	3	5	13	11 201	4-03-05 13	11:41	0.00.05
	3e048305-8420-4048-e104-899-077580104	e5/6401d-19d1-42e6-8	725-0662028830a	2014-03-051	13:11:41	3	5	13	11 201	4-03-05 13	11:42	0.00.01
							6	13	10 201	4-03-05 13		
	2e0f8305-9f20-4048-610f-999d7758030f	93x4d7d5-7000-4027-	bcOd-da1e5624Ocab	2014-03-05	18 10 21	5		3.6	30, 201	4-09-09-18	30.59	0.00.02

• Error Rates - A a graph that represents the number of errors and warnings that Metalogix Content Matrix encounters during a migration on a "per minute" basis. The vertical axis will list the number of errors/warnings that are encountered (at the specified time), and the horizontal axis lists the amount of time (displayed in a "per minute" value). The horizontal axis can also be changed to display in month, day, or hour time values as well. Below the graph is a table that provides a different view of the same error/warning breakdown.

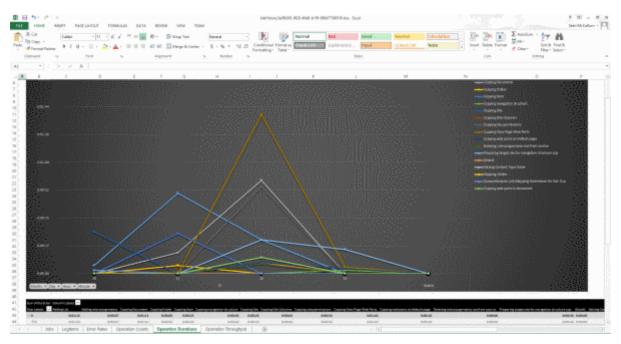
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Operation Counts - The number of operations/actions that are run over a period of time. Some examples are: copying sites, copying lists, copying documents, adding SharePoint groups, adding users, copying permissions, etc., and each operation has its own line representation on the graph. The vertical axis lists the number of operations that are running (at the specified time), and the horizontal axis lists the amount of time (this is displayed in a "per minute" value). The horizontal axis can also be changed to display in month, day, or hour time values as well. Below the graph there is a table that provides a different view of the same migration operation data.



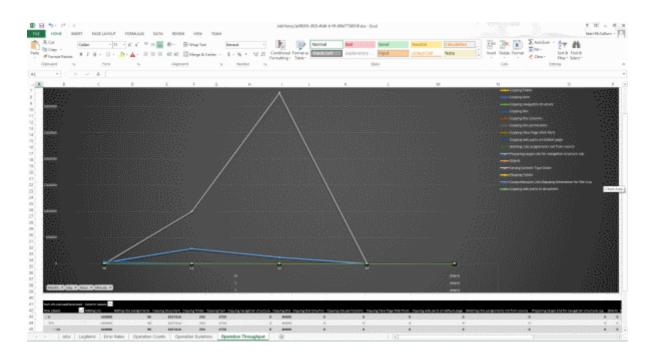
Operation Duration - The total duration of time for each operation/action type against the total migration time. This is potentially the most confusing graph to read in the exported Excel file. The vertical axis lists the total duration time for each action. This is determined by finding the difference between each operation/actions Time Started and Time Finished values, and then

adding the totals together for all of that operation/actions of that type that are running. This is then displayed against the horizontal axis which lists the time (displayed in a "per minute" value) for the migration. The horizontal axis can also be changed to display in month, day, or hour time values as well. Below the graph there is a table that will provide a different view of the same migration data.



An example of how to read this graph is: if at minute 25 (of the hour, **not** the 25 minute of the migration) a large number of small documents are copied and completed (all in the 25th minute), then at minute 25 in the graph there will likely be a spike in the "duration time" for the "Copying Document" operation/action. If each document was copied in 2 seconds, and there were 41 small documents, then the **Sum of Duration** value would be listed as 82 seconds (or 0:01:22). So the results in the graph would show a spike for the **Copying Document** operation/action and minute 25, with a value of 0:01:22.

 Operation Throughput – The amount of data/throughput (in MB) that is migrated on a "per minute" basis. The vertical axis lists the amount of data that is being pushed through Metalogix Content Matrix for a given operation (at the specified time), and the horizontal axis lists the time (displayed in a "per minute" value) at which that the action was performed. The horizontal axis can also be changed to display in month, day, or hour time values. Below the graph there is a table that will provide a different view of the same throughput data.



Copying Job Logging to Other Applications

It is possible to copy the results of migration jobs from log files to other applications. This can be beneficial if you want to keep track of copy or incremental information outside of Metalogix Content Matrix, or want to manipulate the information for reporting or retention purposes. The log information is copied as text, to the clipboard, and can then be pasted within any other application that allows text pasting. For example, if a copy action was made, the logging can be copied into a Word file, or into an Excel spreadsheet, then saved.

NOTE: Only the end results of the total action will be copied.

To copy the logging for a job list:

- 1. Select a job from the **Job List**.
- 2. Right-click, and choose Copy selected job to clipboard (alternately Ctrl+C can be used).
- 3. Open the desired target program (for example: Microsoft Word, Microsoft Excel, Notepad, etc), then paste the content into the application (Ctrl+V, or the paste command in the application itself).

NOTE: The logging for each action within the list must be copied separately.

To copy the logging for job items:

- Select the desired job list or job item(s) that the logging is to be copied from, and open the job list to access the Log Viewer.
- Select any job items that are to be copied. Single or multiple items can be selected in the Log Viewer. In order to copy the logging for the entire job, all job items in the Log Viewer must be selected.

 When all of the desired items are selected, right-click on one of them, and select Copy Log Items to Clipboard, and select to either copy them with, or without details. The Details are a set of extra columns that are added to the logging. These columns are typically: **Details**, **SourceContent**, and **TargetContent**. These columns do not always contain extra information. The default copy option (Ctrl+C) is to copy the logging without the Details.

	Time			Operation	Item	Courses	Tavaat
				Operation		Source	Target
\checkmark	5/23/20	17 1:	55:53 PM	Loading source an	Paste Site Collec	http://qa2013farm4:38876	https://i
×	5/23/20	17 1.	View log item	Copy Site Collection	http:%2F%2Fq	http://qa2013farm4:38876	https://
			Copy Log Iten	n to Clipboard 🔹 🕨	With Details	;	
		Θ	Navigate	•	Without Det	tails Ctrl+C	
		_					
<							

Creating a Support Zip File for a Migration Job

You can generate a zip file of data associated with a single job item to help <u>Quest Support</u> facilitate troubleshooting.

The high-level data collected in the zip file includes:

- Application Settings files.
- Product information (product version, license, etc.).
- Information about the job item (what action settings were set, the job log, etc.).

IMPORTANT: Please review the contents of the zip file before sending it to Support. While this feature attempts to only collect non-sensitive data, no guarantees can be made - it is up to you to ensure that any files in the zip folder are stripped of any confidential data. Regardless, Quest assures that the contents of the zip file will only be used for troubleshooting the associated support ticket.

To create a support zip file:

- 1. In the Job List, select the job for which the zip file is to be generated.
- 2. Use one of the following options:

- In the main ribbon, click the **Help** tab, then **Create Support Zip File**.
- Right-click and choose Create Support Zip File.
- 3. Save the file to the desired location using the desired file name.
- 4. If you wish to review the zip file for sensitive information, click **Yes** to open the zip file. Once you are satisfied with the contents of the zip file, it can be sent to Quest Support to aid in troubleshooting.

Enabling Trace Logging

You can enable trace logging on the machine where Content Matrix is installed and migrations are run to assist Quest Support with troubleshooting.

NOTE: For Distributed Migration, trace logging must be enabled on each agent machine.

To enable trace logging:

1. Open the file **LogSettings.xml**, which can be found in one of the following folders:

• If you are required to be a local administrator on the machine where Content Matrix is installed: C: \ProgramData\Metalogix

OR

- If you are not required to be a local administrator on the machine where Content Matrix is installed: C:\Users\<username>\AppData\Roaming\Metalogix\Common
- 2. Set <LoggingLevel> to one of the values described in the following table.

WARNING: When trace logging is enabled, entries are appended to the log file for each migration job that is run, and the same log file is used for all editions. This means the log file can become very large, which is why it is recommended that you only enable trace logging at the request of Quest Support.

Value	Description				
None [Default]	Trace logging is disabled (i.e., no entries are written to the log file).				
Error	Only Error messages are logged.				
Debug	Error and Debug messages are logged. NOTE: Debug should only be used for advanced troubleshooting as it may impact migration performance.				

Log entries are written to the file MetalogixGlobalLog.txt, which is located in the same folder as LogSettings.xml.

Using PowerShell with Content Matrix

Metalogix Content Matrix can generate PowerShell scripts to be used to migrate SharePoint content through the PowerShell command window. You can also use PowerShell to perform other actions, including:

- connecting to SharePoint
- triggering a job in the Content Matrix Console to run

The Content Matrix PowerShell Console shortcut is added to the same Start Menu folder location where the to Metalogix Content Matrix Consoles are placed after installation. The same PowerShell console can be used for any edition, as long as the edition-specific <u>snap-ins</u> are used. You can also use a standard PowerShell console or PowerShell ISE.

Adding the PowerShell Snap-Ins for the Application Framework

Whenever a new PowerShell session is launched, the edition-specific snap-ins must be added before you can perform a Content Matrix action.

NOTES:

- If you have more than one edition of Content Matrix, only one edition can be run per PowerShell session.
- If Content Matrix settings change, in order to apply new settings all PowerShell sessions must be restarted.

To add the PowerShell cmdlets for the application framework:

- 1. Open a Powershell ISE or PowerShell console session.
- 2. Copy and paste the PowerShell snap-ins from the Quest Support Knowledge Base article located at https://support.quest.com/metalogix-content-matrix/kb/333879.

Content Matrix PowerShell Commandlet List

Metalogix Content Matrix can generate PowerShell script for you, for any migration action that is available through it. The below cmdlets are used in the generated PowerShell script, but can also be used to write your own script, should you desire to do so. For more information on each cmdlet, simply type **get-help [cmdlet]**. For example, if you want more information on **Copy-MLSharePointList** cmdlet you would enter **get-help Copy-MLSharePointList**, followed by the Enter (return) key.

Below is a list of the available cmdlets (and their parameters), broken up into the available commands for each snap-in.

Metalogix.System.Commands

Set-ApplicationDataPath

- **Path** The path to be used as the root folder for the application path. Note that relative path elements relating to the product being used will still be generated within this directory, and that the application data will be contained within those folders. (Mandatory)
- IncludeCompanyName Indicates that the Metalogix company name should still be used as part of the relative path from the specified directory to the application data folder.

Set-CommonDataPath

- **Path** The path to be used as the root folder for the common data path. Note that relative path elements relating to the product being used will still be generated within this directory, and that the common data will be contained within those folders. (Mandatory)
- **IncludeCompanyName** Indicates that the Metalogix company name should still be used as part of the relative path from the specified directory to the common data folder.

Get-MetalogixConfigurationVariable

- Name The name of the configuration variable. (Mandatory)
- ValueType Specify the value type of the configuration variable. This type must be IConvertible. (Default: IConvertible).

New-Filter

- **PropertyName** The name of the parameter to compare the value to on the object being filtered. (Mandatory)
- **Operand** The operand to use to compare the specified value to the given property value. (Mandatory)
- Value The value to compare the given property to. (Mandatory)
- **CaseSensitive** Indicates if the comparison should be case-sensitive. This parameter is only meaningful when the property to be compared to is a string.
- **TypeName** The name of a type to apply the filter to. If not specified, the filter will apply to any object.

Join-Filter

- Logic The logic to use in the join (and or or). (Mandatory)
- FilterExpression The filter object to join together. Can be a set of filters). (Mandatory)

Invoke-Filter

- Objects (Mandatory)
- Filter (Mandatory)

Load-MetalogixConfigurationVariableSettings

- FilePath The full file path of the configuration variable settings file to load. (Mandatory)
- Scope The scope to load these settings into. (Default: Environment).

New-MetalogixSerializableObject

- TypeName The name of the type of object to create. (Mandatory)
- AssemblyName The name of the assembly containing the type to be created. (Mandatory)
- SerializedValue The XML representation of a single serializable Metalogix object. (Mandatory)
- Enumerate If set, any collections returned by the cmdlet will enumerated. Otherwise, collections will be returned as a single object.

New-MetalogixSerializableObjectCollection

• SerializedValue - The XML representation of a Metalogix object collection. Generally this will be obtained by requesting the PowerShell command for a job configured in the GUI. This cmdlet is not recommended for general use. (Mandatory)

Set-MetalogixConfigurationVariable

- **Scope** The scope of the configuration variable. Possible values are Environment, EnvironmentSpecific, User, UserSpecific, Application, ApplicationSpecific, ApplicationAndUserSpecific. (Default: ApplicationAndUserSpecific). (Mandatory)
- Name The name of the configuration variable. (Mandatory)
- Value The value of the configuration variable. (Mandatory)

Set-MetalogixDefaultResolverSetting

- Name The name of the configuration variable ("ResourceTableResourceTableLink"). (Mandatory)
- Value The value of the configuration variable. This value will indicate where to obtain configuration key settings from. Options are local file system ("Metalogix.ResourceFileTableResolver") or agent database (Metalogix.Core.ConfigVariables.ResourceDatabaseTableResolver). (Mandatory)

Metalogix.SharePoint.Commands

Add-MLSharePointSiteCollection

- WebApplicationName Name of the Web Application to Create the Site Collection in. Web Application must exist in the specified Target. (Mandatory)
- WebTemplateName Web (Site) Template to use for the Site Collection. Web (Site) Template must exist. The value must be in the form name#configuration. E.g., STS#1 for Blank Site (Mandatory)
- Language Language to use for the Site Collection. Can be Language Code (LCID) or Language Name. Language must exist in the specified Target. (Mandatory)
- ExperienceVersion The experience version to use when creating the site. This setting is only used for SharePoint 2013. Use 15 for the 2013 UI and 14 for the 2010 UI.
- Title The Title for the Site Collection. (Mandatory)
- **Description** Description for the Site Collection.
- **Path** Managed Path for the Site Collection. Include forward-slash characters where required. E.g., "/sites/" or "/sites/". (Mandatory)
- URL Server Relative portion of URL solely used to identify the Site Collection itself. E.g., "TestSiteCollection" (Mandatory)
- •
- **OwnerLogin** Domain and username to be used as the Primary Administrator for the Site Collection. E.g., "sampledomain\sample.user" (Mandatory)
- SecondaryOwnerLogin Domain and username to be used as the Secondary Administrator for the Site Collection. E.g., "sampledomain\another.user"
- **ContentDatabaseName** Content Database Name to use. Not specifying this value will use the default content database (auto detect).
- SelfServiceCreateMode Allow users without Farm Administrator privileges to add the Site Collection.
- SetSiteQuota Set Quota for the Site Collection.
- **QuotaMaximum** Limit site storage to maximum size (Mb). SetSiteQuota must be set to true and SelfServiceCreateMode should be false. Mutually exclusive with QuotaID.

- **QuotaWarning** Send a warning email when the site storage reaches this size (Mb). SetSiteQuota must be set to true and SelfServiceCreateMode should be false. Mutually exclusive with QuotaID.
- **QuotaID** Use Quota Template. Can be the integer ID or the string name of the Quota. SetSiteQuota must be set to true and SelfServiceCreateMode should be false.
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Add-Permissions

- Name The name of the user or group you wish to assign a permission level to. (Mandatory)
- **PermissionLevel** The name of the permission level you want to grant the specified user or group. (Mandatory)
- **Recurse** A flag that indicates the given permissions level should be granted to the given user for each item below the target which has unique permissions.
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Add-SharePointFolder

- Name The name of the folder to be created. (Mandatory)
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Add-SharePointList

- Name The name for the new list. (Mandatory)
- TemplateName The numeric code of the template to use. (Mandatory)
- Description A description of the list.
- Title The title for the new list.
- IsOnQuickLaunch Indicates if the list should be added to the quick launch.
- HasVersions Indicates if the list should enable major versions.
- HasMinorVersions Indicates if the list should enable minor versions.
- RequiresContentApproval Indicates if the list should require content approval.
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.

- **Source** The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Add-SharePointSite

- URL The URL name for the new site. If not specified, it will be automatically generated from the given name.
- Name The name for the new site. (Mandatory)
- **TemplateName** The name of the template to use, either in [Name]#[Config] form or by the name of the STP file. (Mandatory)
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Clear-GlobalMappings

- **ClearGuidMappings** Indicates that global GUID mappings should be cleared.
- ClearURLMappings Indicates that global URL mappings should be cleared.
- ClearUserMappings Indicates that global user mappings should be cleared.
- ClearDomainMappingss Indicates that global domain mappings should be cleared.

Compare-MLSharePointFolder

- CompareFolders Indicates whether or not to compare folders.
- CompareItems Indicates whether or not to compare items.
- CompareVersions Indicates whether or not to compare item versions.
- **CompareMetadata** Indicates whether or not to compare object metadata.
- VerboseLog Indicates whether or not to compare object metadata.
- HaltIfDifferent Indicates whether or not to halt the comparison if a difference is encountered.
- FilterListsAndFolders Indicates whether or not to filter lists and folders.
- ListAndFolderFilterExpression The filter expression applied to lists and folders.
- FilterItemsAndVersions Indicates whether or not to filter list items and their versions.
- ItemAndVersionFilterExpression The filter expression applied to list items and versions.
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Compare-MLSharePointList

This is the same as **Compare-MLSharePointFolder** with additional parameters.

Compare-MLSharePointSite

This is the same as Compare-MLSharePointList with additional parameters:

- Compare Lists Indicates whether or not to compare lists.
- Compare SubSites Indicates whether or not to compare sub sites.
- FilterSubSites Indicates whether or not to filter sub sites.
- SubSiteFilterExpression The filter expression applied to sub sites.

Get-MLSharePointDatabase

- Server The name of the database server. (Mandatory)
- Database The name of the SharePoint content database. (Mandatory)
- User A user to connect as, in DOMAIN\Login format.
- **Password** The password for the user provided.

Get-MLSharePointFolder

This is the same as Get-MLSharePointList with an additional parameter:

• FolderPath - The list-relative path to the desired folder, seperated by "/". (Mandatory)

Get-MLSharePointFolderFromDatabase

This is the same as Get-MLSharePointListFromDatabase with an additional parameter:

• FolderPath - The list-relative path to the desired folder, separated by "/". (Mandatory)

Get-MLSharePointItembyFileName

- FileName The filename of the SharePoint document. (Mandatory)
- FolderPath The list-relative path to the desired folder, separated by "/".
- ListName The name of the desired list. (Mandatory)

- SiteURL The URL of the SharePoint site to connect to. (Mandatory)
- User A user to connect as, in DOMAIN\Login format.
- Password The password for the user provided.
- AdapterType The short name of the adapter type you want to use for the connection. Use OM for a local SharePoint or WS for a remote SharePoint where the Metalogix Extensions Web Service is installed.
- **ReadOnly** Indicates that the connection made to the SharePoint site should be read only.

Get-MLSharePointItembyID

- Id The ID of the SharePoint item. (Mandatory)
- FolderPath The list-relative path to the desired folder, separated by "/".
- ListName The name of the desired list. (Mandatory)
- SiteURL The URL of the SharePoint site to connect to. (Mandatory)
- User A user to connect as, in DOMAIN\Login format.
- Password The password for the user provided.
- AdapterType The short name of the adapter type you want to use for the connection. Use OM for a local SharePoint or WS for a remote SharePoint where our Metalogix Extensions Web Service is installed.
- ReadOnly Indicates that the connection made to the SharePoint site should be read only.

Get-MLSharePointItemFromDatabase

This is the same as **Get-MLSharePointListFromDatabase** with additional parameters:

- FolderPath The list-relative path to the desired folder, separated by "/".
- ItemName The filename or ID of the desired item. (Mandatory)

Get-MLSharePointList

This is the same as Get-MLSharePointSite with an additional parameter:

• ListName - The name of the desired list. (Mandatory)

Get-MLSharePointListFromDatabase

This is the same as **Get-MLSharePointSiteFromDatabase** with an additional parameter:

• ListName - The name of the desired list. (Mandatory)

Get-MLSharePointServer

- ServerURL The URL of the SharePoint server to connect to. (Mandatory)
- **User** A user to connect as, in DOMAIN\Login format.
- **Password** The password for the user provided.
- **ReadOnly** Indicates that the connection made to the SharePoint site should be read only.

Get-MLSharePointSite

- SiteURL The URL of the SharePoint site to connect to. (Mandatory)
- User A user to connect as, in DOMAIN\Login format.
- **Password** The password for the user provided.
- AdapterType The short name of the adapter type you want to use for the connection. Use OM for a local SharePoint or WS for a remote SharePoint where the Metalogix Extensions Web Service is installed.
- ReadOnly Indicates that the connection made to the SharePoint site should be read only.

Get-MLSharePointTenant

- TenantURL The URL of the SharePoint tenant to connect to. (Mandatory)
- User A user to connect as, in user@company.onmicrosoft.com format. (Mandatory)
- Password The password for the user provided. (Mandatory)
- **ReadOnly** Indicates that the connection made to the SharePoint tenant should be read-only.

Get-SharePointSiteFromDatabase

- Server The name of the database server. (Mandatory)
- Database The name of the SharePoint content database. (Mandatory)
- **SiteURL** The server-relative URL of the SharePoint site to connect to.
- **User** A user to connect as, in DOMAIN\Login format.
- **Password** The password for the user provided.
- **HostHeader** A host header for a specified subsite. Use this if you are connecting to a site or subsite with a host header name.

Refresh-SharePointNode

- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Remove-MLSharePointFolder

• Folder - The Folder object retrieved by using the Get-MLSharePointFolder Cmdlet. (Mandatory)

- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.

[•]

- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Remove-MLSharePointItem

- Item The ListItem object retrieved by using the Get-MLSharePointItem Cmdlet. (Mandatory)
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Remove-MLSharePointList

- List The list object retrieved by using the Get-MLSharePointList Cmdlet. (Mandatory)
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.

• JobDatabase - The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Remove-MLSharePointSite

- Site The site object retrieved by using the Get-MLSharePointSite Cmdlet. (Mandatory)
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Remove-MLSharePointSiteCollection

- **SiteCollection** The Site Collection object retrieved by using the Get-MLSharePointSite Cmdlet. (Mandatory)
- Server The parent Server object of the Site Collection, retrieve by using the Get-MLSharePointServer Cmdlet. (Mandatory)
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.

JobDatabase - The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Search-SharePointSite

- SearchTerm The search term to use.
- MaxResults The number of search results to output.
- MatchExactly Indicates that the search term must match one of the searched fields exactly.
- Recursive Indicates that data within all subwebs should be included in the search.
- IncludeItems Indicates that the search results should include items.
- IncludeDocuments Indicates that the search results should include documents.
- IncludeFolders Indicates that the search results should include folders.
- Include Lists Indicates that the search results should include lists.
- IncludeSites Indicates that the search results should include sites.
- ContentType If specified, search results must include this value in their content type name.
- Author If specified, search results must have been created by an author matching this value.
- Editor If specified, search results must have been modified by an editor matching this value.
- CreatedBefore If specified, search results must have been created before this date.
- CreatedAfter If specified, search results must have been created after this date.
- ModifiedBefore If specified, search results must have been modified before this date.
- ModifiedAfter If specified, search results must have been modified after this date.
- Transformers The collection of data transformers which the action needs to run. Note that if the passed-in
 value for this parameter does not include transformers which are considered mandatory, they will be added
 automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Update-SharePointSiteCollectionSettings

- SiteCollectionAdmins A list of login names to be granted site collection administrator privileges.
- QuotaMaximum An independently defined maximum storage size for this site collection.
- **QuotaWarning** An independently defined size at which to send a warning email for this site collection.
- QuotaID A quota template ID to use for this site collection.
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Metalogix.Jobs.Reporting.Commands

Export-JobHistory

- **SqlCeDbFilePath** Specify the path to the SQL database file that contains the Job History data. (Mandatory)
- ServerName The name of the SQL Server. (Mandatory)
- DatabaseName The name of the Job History database. (Mandatory)
- AuthType Indicates whether to use Integrated (Windows) or SQL Authentication. If not specified will Integrated Authentication will be used.
- Username Specify the username for SQL Authentication.

• Password - Specify the password for SQL Authentication.

Metalogix.Exchange.Commands

Copy-ExchangeItem

- UserMapper Defines the user mapping between Exchange and SharePoint users.
- KeepAllDayEvent Indicates how all day events should be copied between different time zones. If this switch is on all day events will start in the same local time (hours:minutes) in target as were defined in source. Time zone difference is not calculated.
- **OutputType** Defines the format in which Exchange items will be migrated to SharePoint. Possible options are: msg, eml.
- SelectedFields Defines fields which will be migrated from Exchange item to SharePoint item.
- **ContainerSplitLimit** Defines the limit for item count in SharePoint lists. If the item count in source Exchange folder reaches this limit, items will be placed in separate folders, which will be created on the fly. These folders will contain no more items than the defined limit.
- VerboseLogging Indicates if the more detailed logging should be enabled.
- Overwrite Indicates if the copy operation should overwrite existing items and documents.
- Filters Defines a filter expression used to determine if a document or item should be copied.
- **ContentTypeOptions** Defines a set of content type application rules for the item copying operation.
- **Transformers** The collection of data transformers which the action needs to run. Note that if the passed-in value for this parameter does not include transformers which are considered mandatory, they will be added automatically.
- Quiet If set, the operation will not report progress to the PowerShell console.
- JobFile The name of a job file to use for logging. If the file does not exist it will be created.
- Source The source node for the actions.
- Target The target node for the actions.
- JobDatabase The connection string of a jobs database to use for logging. If the connection string is invalid, an exception is thrown. If both 'JobFile' and 'JobDatabase' parameters are specified, then the 'JobDatabase' parameter will take precedence and the job will only be written to the job database.

Copy-AllExchangeFolderItem

This is the same as **Copy-ExchangeItem** with additional parameters.

Copy-ExchangeFolder

This is the same as **Copy-ExchangeItem** with additional parameters:

- PermissionMapper Defines the mapping between Exchange and SharePoint permissions.
- SkipNonMappedPermissions Indicates if the non mapped users should be skipped.
- ShowSubSite Indicates if the site created for migration should be displayed in the navigation line.
- CopyPermissions Indicates if the permissions should be copied.
- CreateSite Indicates whether a new site should be created for the migration.
- **SiteName** Defines the name of the site which will be created for the migration. All data will be migrated to this site.
- WebTemplateID Defines the web template id.
- WebTemplateConfig Defines the web template configuration.
- WebTemplateName Defines the web template which will be applied to SharePoint sites during the migration.
- IsSiteHierarchy Indicates if the folder hierarchy should be created using sites.
- EnableTreeViewOnSite Indicates if the tree view navigation should be enabled and shown in the SharePoint environment easing navigation.

Copy-ExchangeFolderToList

This is the same as Copy-ExchangeFolder with additional parameters.

Modifying Content Matrix Configuration and Settings

You can configure and customize a number of Metalogix Content Matrix settings, including:

- the use of encrypted SQL database connections
- proxy settings
- <u>available actions and events</u>
- default settings in configuration variable files
- <u>client-side settings</u>
- resource utilization settings

Using Encrypted SQL Database Connections

When connecting to a <u>full SQL Content Matrix Job Database</u>, you are given the option to connect using TLS/SSL encryption.

NOTE: Content Matrix can use any version of TLS that is compatible with .NET Framework 4.7.2. The default version of TLS used by the operating system on the machine from which you are connecting will be used by Content Matrix.

Connect to SQL Server									
SQL Server: QAX-SP13-DB14 Browse									
SQL Database:	SQL Database: ContentMatrixJobs Browse								
Encrypt Connection Trust Server Certificate									
- Authentication									
Use Current	Windows Us	ser: AXCELERT	EST\te	stbenchfarm					
🔿 Use SQL S	erver Login:								
	Password:								
Remember my password									
Connect Cancel									

The encrypted connection can use either:

• a self-signed certificate or a trusted certificate from the third party authority (refer to the Microsoft article <u>https://docs.microsoft.c om/en-us/sql/database-engine/configure-windows/enable-</u>

<u>encrypted-connections-to-the-database-engine?view=sql-server-ver15</u> for instructions on configuring an encrypted connection using a certificate)

OR

• a SQL-generated certificate, which does not require configuration.

NOTE: If a trusted certificate is used, it is not necessary to check the **Trust Server Certificate** box. However, if the box is not checked and the certificate is not trusted, the following message will display:



In this case, the **Trust Server Certificate** box must be checked in order to continue the connection.

Configuring Proxy Settings

In most cases Metalogix Content Matrix can automatically connect to SharePoint and authenticate license keys, through an environment's proxy setting, However, in some cases the proxy may need to be configured within Metalogix Content Matrix. In these cases users can specify the proxy settings though the connecting dialog.

There are two basic places where this proxy setting can be configured. The first of these is when <u>activating a license key</u>, and the second when <u>connecting to SharePoint</u>. The dialogs for these options look slightly different, and the when you are using a proxy to connect to SharePoint, you have the additional option to **Import Proxy from Internet Explorer**.

Enable proxy	Durts (a	Connection Options	Enable proxy G Import Proxy From Internet Explorer G Enter Manua	lγ
Connect As	Port: 0	Proxy Options	Server name:	Port:
METALOGIX\doconnor Different user: Password:		Included Certificates	Connect As METALOGIXIdoconnor Different user: Password:	
	Set Close			

To configure proxy settings:

- 1. In the Proxy server dialog, check the **Enable proxy** box.
- 2. Use the information in the following table to determine the appropriate action to take.

If	Then					
you want to manually enter proxy information	 A. Select Enter Manually. B. Enter the Server name (or IP) and Port for the proxy. C. Specify the credentials to be used when connecting to the target server. The Windows authenticated credentials of the current user will be selected by default. You can specify alternate SharePoint credentials by clicking the Different user radio button, and entering an alternate username and password. SharePoint Logon Connection Options Enable proxy Enver name: 127.0.0.1 Proxy Options Enver name: 127.0.0.1 Port: 8080 Different user: Lellum/\dministrator Password: **** 					
Internet Explorer has been configured to use a proxy server via a proxy auto- configuration (.PAC) file and you want to connect to SharePoint using this method	select Import Proxy from Internet Explorer.					

3. If you accessed the dialog from the License Activation dialog, click [Set].

NOTE: If this method does not seem to be working, you can manually configure Metalogix Content Matrix to use a proxy setting. See <u>Manually Configuring Proxy Settings</u>.

Manually Configuring Proxy Settings

If, for some reason, Metalogix Content Matrix cannot connect through a proxy, then the proxy settings can be configured through the Metalogix Content Matrix UI. If you are not able to <u>configure the proxy</u> <u>settings through the product's UI</u> for some reason, it can be configured manually. The below directions should help you manually configure some explicit proxy settings, enabling the product to work with your proxy.

To manually configure proxy settings:

- 1. Open the Metalogix Content Matrix Console and add a connection to the desired SharePoint location.
- 2. After a connection has been added, close Metalogix Content Matrix.
- 3. Open the **ActiveConnections.xml** file, which can be found in the following locations, in a text editor:

C:\Users\<USER>\AppData\Roaming\Metalogix\Metalogix Content Matrix Console - <Product> Edition

Within the XML file there is a <Connection /> XML element for each added connection. In order for proxy settings to be added to a connection, another element needs to be added inside the connection XML. The added element should be named Proxy, and it should have an attribute named URL. The value for this URL attribute should be the actual URL for the proxy that will be used.

For example, if we are trying to add a proxy connection to the following node:

```
<Connection NodeType="Metalogix.SharePoint.SPWeb, Metalogix.SharePoint,
Version=1.0.0.0, Culture=neutral, PublicKeyToken=3b240fac3e39fc03"
AdapterType="WS" URL=http://SharePoint2010 />
```

We would add: <Proxy URL="http://metalogixproxy:8000/" />. So the end result would be:

<Connection NodeType="Metalogix.SharePoint.SPWeb, Metalogix.SharePoint, Version=1.0.0.0, Culture=neutral, PublicKeyToken=3b240fac3e39fc03" AdapterType="WS" URL="http://SharePoint2010">

<Proxy URL="http://metalogixproxy:8000/" />

</Connection>

If the proxy connection requires a user name and password that differ from your normal logged in Windows credentials, then these can also be specified in the **Proxy** element. The attribute **UserName** can be used to enter a user name (in domain\user format), and an attribute named **Password** can be used to enter the password value.

In this case the **Proxy** value <Proxy URL="http://metalogixproxy:8000/" /> would become:

```
<proxy URL="http://metalogixproxy:8000/" UserName="DOMAIN\ProxyUser"
Password="ProxyPassword" />
```

- 4. After these values have been entered to the desired connection, save and close the ActiveConnections.xml file.
- 5. Re-launch Metalogix Content Matrix.

The connection using the proxy should now be configured, and the connection should be established and working.

Restricting Available Actions and Suppressing Events

Metalogix Content Matrix provides you with the ability to control what actions are available to the client application through configuring on the SharePoint server. Product behaviors can be restricted along three dimensions:

- Available actions
- Unrestricted users
- Suppressed events

Configuring the behavior of the Metalogix Content Matrix client from target SharePoint servers requires that an XML configuration file be added to the target SharePoint server web application directory. The XML file must be named **ServerAdapterConfig.xml** and placed in the ML folder directory located within the SharePoint hive (this is the same directory where the Metalogix SharePoint Extensions Web Service files are). Below are some examples of the typical directory location of the ML folder, depending on SharePoint product version and configuration:

- SharePoint 2013: C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\15\isapi\ML
- SharePoint 2016: C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\16\isapi\ML
- SharePoint 2019:- C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\16\isapi\ML

ServerAdapterConfig.xml File Format

Below is an example of the simple XML format required for ServerAdapterConfig.xml.

```
<ServerAdapterConfig>
<DisabledActions>
```

<Action>Metalogix.SharePoint.Actions.Migration.PasteSiteActi
on</Action>

<Action>Metalogix.SharePoint.Actions.Migration.PasteSiteColl
ectionAction</Action>

<Action>Metalogix.SharePoint.Actions.Migration.PasteSiteList
s</Action>

<Action>Metalogix.SharePoint.Actions.Migration.CopyRoleAssignme
ntsAction</Action>

<Action>Metalogix.SharePoint.Actions.Migration.CopyWorkflowAsso
ciationsAction</Action>

<Action>Metalogix.SharePoint.Actions.Migration.PasteFolderActio
n</Action>

</DisabledActions>

<ExemptUsers>

<User>METALOGIX\geordie</User>

<User>METALOGIX\julien</User>

</ExemptUsers>

<SuppressEvents>False</SuppressEvents>

</ServerAdapterConfig>

There are three main sections within the root ServerAdapterConfig section of this XML:

- DisabledActions: This section defines the set of actions that cannot be run on the client. See <u>Actions That Can Be Disabled on the Server Side</u> for a complete list.
- ExemptUsers: This section defines the set of users by user name who are exempt from any DisabledActions. In other words, a user in the ExemptUsers is not subject to any restrictions imposed on Metalogix Content Matrix clients by the DisableActions section.
- SuppressEvents: This section defines if any of SharePoint's event receivers are suppressed/disabled during a migration and then restarted once the action is complete. The value for this section is set to "True" by default, but can be manually configured if want event suppression to be disabled. Suppression of event receivers allows Metalogix Content Matrix to avoid any potential concurrency issues when migrating (mainly with regards to workflows).

Actions That Can Be Disabled

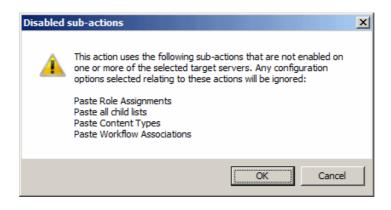
Many of the SharePoint related actions available in the Metalogix Content Matrix Console can be disabled on the server side. The table below lists the complete set of client actions that can be disabled from the server and provides the format of the action name required in the DisabledActions section of the ServerAdapaterCongifuration.xml file.

NOTE: When an action that is available via the client UI is disabled on the server, it will be visible in client menus but disabled.

Action	Configuration File Format				
Change Global Navigation Settings	Metalogix.SharePoint.Actions.Administration.ChangeGlobalNavigationAction				
Change Quick Launch	$Metalogix. Share {\tt Point.} Actions. {\tt Administration.} Change {\tt QuickLaunch} Action$				
Create Folder	Metalogix.SharePoint.Actions.Administration.CreateFolderAction				
Create List	Metalogix.SharePoint.Actions.Administration.CreateListAction				
Create List From XML	Metalogix.SharePoint.Actions.Administration.CreateListFromXMLAction				
Create Site	Metalogix.SharePoint.Actions.Administration.CreateSiteAction				
Create Site Collection	Metalogix.SharePoint.Actions.Administration.CreateSiteCollection				
Create Site Collection in Self-Service Mode	Metalogix.SharePoint.Actions.Administration.CreateSiteCollectionSelfServic eMode				
Delete Discussion Item	Metalogix.SharePoint.Actions.Administration.DeleteDiscussionItem				
Delete Item	Metalogix.SharePoint.Actions.Administration.DeleteFolder				
Delete List	Metalogix.SharePoint.Actions.Administration.DeleteItem				
Delete Site	Metalogix.SharePoint.Actions.Administration.DeleteList				
Delete Site Collection	Metalogix.SharePoint.Actions.Administration.DeleteSite				
Export Doc Items	Metalogix.SharePoint.Actions.Administration.DeleteSiteCollection				
Publish Documents and Pages	$\label{eq:metalogix} Metalogix. Share Point. Actions. Administration. Publish Documents and Pages Action tion$				
Update Site Collection Settings	Metalogix.SharePoint.Actions.Administration.UpdateSiteCollectionSettings ction				
Add Role Assignments	Metalogix.SharePoint.Actions.Migration.AddRoleAssignmentsAction				
Copy Folder Permissions	Metalogix.SharePoint.Actions.Migration.CopyFolderPermissions				
Copy Item Alerts	Metalogix.SharePoint.Actions.Migration.CopyItemAlertsAction				
Copy List Alerts	Metalogix.SharePoint.Actions.Migration.CopyListAlertsAction				
Copy List Permissions	Metalogix.SharePoint.Actions.Migration.CopyListPermissions				
Copy List Role Assignments	Metalogix.SharePoint.Actions.Migration.CopyListRoleAssignments				
Paste Web Parts	Metalogix.SharePoint.Actions.Migration.CopyWebPartsAction				
Paste Master Page Gallery	Metalogix.SharePoint.Actions.Migration.CopyMasterPageGalleryAction				
Paste Content Types	Metalogix.SharePoint.Actions.Migration.CopySiteContentTypesAction				

Action	Configuration File Format				
Paste All Subsites	Metalogix.SharePoint.Actions.Migration.CopySubSitesAction				
Copy Web Alerts	Metalogix.SharePoint.Actions.Migration.CopyWebAlertsAction				
Copy Web Permissions	Metalogix.SharePoint.Actions.Migration.CopyWebPermissions				
Paste Workflow Associations	Metalogix.SharePoint.Actions.Migration.CopyWorkflowAssociationsAction				
Paste All List Items	Metalogix.SharePoint.Actions.Migration.PasteAllListItemsAction				
Paste All List Items into Items View	Metalogix.SharePoint.Actions.Migration.PasteAllListItemsIntoItemsViewAction				
Paste Audiences	Metalogix.SharePoint.Actions.Migration.PasteAudiencesAction				
Paste Default Web Part Page	$Metalogix. Share {\tt Point.} Actions. {\tt Migration.} {\tt PasteDefaultWebPartPageAction}$				
Paste Duplicate List	Metalogix.SharePoint.Actions.Migration.PasteDuplicateListAction				
Paste Duplicate Site	Metalogix.SharePoint.Actions.Migration.PasteDuplicateSiteAction				
Paste Folder	Metalogix.SharePoint.Actions.Migration.PasteFolderAction				
Paste List	Metalogix.SharePoint.Actions.Migration.PasteListAction				
Paste List as Folder	Metalogix.SharePoint.Actions.Migration.PasteListAsFolderAction				
Paste List Email Notifications	$Metalogix. Share {\tt Point.Actions.Migration.PasteListEmailNotificationAction}$				
Paste List Item	Metalogix.SharePoint.Actions.Migration.PasteListItemAction				
Paste List Item into Items View	$Metalogix. Share {\tt Point.} Actions. {\tt Migration.} {\tt PasteListItemIntoItemsView} Action$				
Paste My Sites	Metalogix.SharePoint.Actions.Migration.PasteMySitesAction				
Paste Navigation	Metalogix.SharePoint.Actions.Migration.PasteNavigationAction				
Paste Roles	Metalogix.SharePoint.Actions.Migration.PasteRolesAction				
Paste Site	Metalogix.SharePoint.Actions.Migration.PasteSiteAction				
Paste Site Collection	$Metalogix. Share {\tt Point.} Actions. {\tt Migration.} {\tt PasteSiteCollection} Action$				
Paste Site Content	Metalogix.SharePoint.Actions.Migration.PasteSiteContentAction				
Paste Site Lists	Metalogix.SharePoint.Actions.Migration.PasteSiteLists				
Remove Role Assignments	$Metalogix. Share {\tt Point.} Actions. {\tt Migration.} Remove {\tt RoleAssignment} Action$				
Event Suppression	Metalogix.SharePoint.Actions.Migration.SuppressEvents				

Note that many of the above listed actions are used by other actions. When a given action is enabled, but one or more of its sub-action is disabled, the sub-actions will not run. When a user attempts to run an action for which sub-actions are disabled, they will be notified with a dialog similar to the following:



Configuration Variable Files

Metalogix Content Matrix uses a set of configuration variable files behind the scenes to help set and manage settings for all of the Metalogix Content Matrix Editions. This section explains what the configuration variable files are, their general behavior, and where to find them.

Configuration variables are contained in the following three files:

- EnvironmentSettings.xml
- UserSettings.xml
- ApplicationSettings.xml

Some settings can be configured for all Product Editions, while other settings are limited to individual Product Editions.

Any settings that are configured in multiple files will be scoped to the lowest level (either in the "UserSettings.xml" file or the "ApplicationSettings.xml" file), including values that are pulled from the old EnvironmentSettings.xml file.

IMPORTANT: Make sure the Content Matrix Console is closed when making updates to configuration variable files.

EnvironmentSettings.xml File

This file allows users to configure general settings for all Product Editions. This means that these settings only need to be set in a single file, either for all users of the machine (if users are required to be local administrators) or for each individual user of the machine (if users are *not* required to be local administrators) and can be found in one of the following locations:

• If you are required to be a local administrator on the machine where Content Matrix is installed: C: \ProgramData\Metalogix • If you are *not* required to be a local administrator on the machine where Content Matrix is installed: C:\Users\<username>\AppData\Roaming\Metalogix\Common

UserSettings.xml File

This file allows users to configure general settings for all Product Editions for a specific user account (the logged in account). This means that these settings will be configured for all Product Editions, but only for the current user account. If another user would like to configure these same settings to work for them, they must be configured manually under the appropriate user account. It can be found in the following location:

C:\Users\<USER>\AppData\Roaming\Metalogix

ApplicationSettings.xml File

This file allows users to configure settings that are limited to the specific Product Edition of Metalogix Content Matrix Console, for a specific user account (the logged in account). This means that each Product Edition, for every user account, must be configured individually. While the "ApplicationSettings.xml" file for each Product Edition can contain some of the same settings, there are some settings that are Edition specific (for example, some settings may only work for eRoom Edition, so they will only be available in eRoom Edition). Any settings that are replicated through various version of the file will only be applied to the specific Edition.

For example, the "AllowCheckResults" setting is available in every "ApplicationSettings.xml" file, but it must be set on an individual Product Edition basis. Setting it for SharePoint Edition will not configure it for eRoom Edition. It can be found in the following location:

C:\Users\<USER>\AppData\Roaming\Metalogix\Content Matrix Console - <Product> Edition.

Client Side Configuration

For an individual Metalogix Content Matrix Console instance, you can Change the Managed Metadata Migration Batch Size, and/or Configure Settings for Migrations Using the Import Pipeline.

Changing Resource Utilization Settings

How many threads can be used simultaneously per job in Metalogix Content Matrix is controlled by the **Edit Resource Utilization Settings** option, which is accessible from the Settings ribbon at the top of the Console UI.

If the option is clicked, a dialog containing a slider will appear that will allow control of the number of

OR

threads available within a single action. If the slider is moved all the way to the left, this will turn off multithreading and only allow a single thread to be used during the action. (For more information on threading, refer to the Microsoft article <u>About Processes and Threads</u>.)

NOTE: Turning off multithreading in this way can be a valuable way of troubleshooting whether multithreading is causing issues.

If the slider is left in the middle, it will allow twice the number of processors in threads to be created per action. For example, if the machine running Metalogix Content Matrix has a two core CPU, four threads will be able to be used if the slider is in the below state:

Se	ettings Help											
	×	(tip)	l nnn)	_		~~~	*	÷€>				
iration	Manage Job Configurations	Enable Advanced Mode	Edit Resource Utilization Settings		Resource U	Itilization Setti	ings					×
ons					Efficiency							Speed
38876/sites/GBSC1_AuditLog								-		,		
				I	This allows	slider to the right the application to	scale perfe	ormance wit	th availabl	e hardware	2.	os.
B76/site	es/SC33				In most cas	es, Metalogix rec	commends t	his setting t	be left at t	ne default	value.	
876/site 876/site	es/SiteJacky es/tff1				Resource L	Utilization Settings	<u>s H</u>			OK	Car	ncel

Moving the slider farther to the right will allow more threads to be used, but can potentially overwhelm system resources. This could lead to potential errors if the system resources cannot handle the data being migrated. There is a chance that if the speed is too high, you would see a slowdown in the overall migration, because the migration is trying to run actions faster than the resources properly allow.

While this value can be set through the Content Matrix Console, you can also set it through the back end, if the UI setting does not seem to be working for you. Please contact <u>Quest Support</u> for more information on this back end setting.

Frequently Asked Questions

This section answers some of the most frequently asked questions about using Metalogix Content Matrix.

Keyboard Shortcuts

Question

Are there any keyboard shortcuts in the Metalogix Content Matrix Console? If so, what are they?

Answer

Yes, there are a few basic keyboard shortcuts within the Metalogix Content Matrix Console. They are:

- Ctrl + A This will Select All items within the Items view or in any of the logging sections (such as the Job List section or the Log Viewer).
- **Ctrl + C** This will **Copy** any selected item(s) within Explorer view or Item view, including sites and lists. It will also copy any selected item(s) or information within the logging sections (such as the **Job List** section or the **Log Viewer**).
- **Ctrl + V** This will **Paste** any selected item(s) within **Explorer** view or **Item** view, including sites and lists. It will also paste any selected item(s) or information within the logging sections (such as the **Job List** section or the **Log Viewer**).
- **Delete** This will **Delete** any selected item(s). This applies to all views and items within Metalogix Content Matrix.
- **Ctrl + P** This will open the **Properties** dialog for any selected item in Metalogix Content Matrix, in both the **Explorer** view and the **Items** view.
- Ctrl + S This will open the Save dialog for the current Job list.
- F2 key This will Rename any selected job list in the Job List in the main UI. Simply select the desired job list, in the Job List section, press F2, and type in the new name for the job list.
- **F5 key** This will **Refresh** any selected node in the **Explorer** View. This is the same as using the **Refresh** node option in the context (right-click) menu.

Activating the License Key Silently

Question

I would like to activate my license outside of the Content Matrix Console. Is that possible?

Answer

You can activate your Content Matrix license using PowerShell. Follow the steps below.

- NOTE: This method can only be used for online activations.
- 1. Open the Content Matrix PowerShell Console.
- 2. Run the following cmdlet, which includes specifying the Content Matrix Console Edition for which you want to activate the license.

```
if (Get-Command Set-MetalogixJobPrerequisites -ErrorAction
SilentlyContinue) { Set-MetalogixJobPrerequisites -Value "Content Matrix
Console - <Edition name>" }
```

NOTE: Valid values for <Edition Name> are SharePoint Edition, eRoom Edition, Public Folder Edition. If you license covers more than one Edition, it is only necessary to activate one. The license activation will automatically be applied to any other Edition for which you are licensed.

3. Run the Set-MetalogixLicense cmdlet. Note that additional parameters are required if a proxy server is used.

Without proxy server:

Set-MetalogixLicense -Key "<license key>"

With proxy server:

```
Set-MetalogixLicense -Key "<license key>" -ServerUrl
"proxy_server_IP_addres>" -Port "proxy_port_number>" -UserName
"<user_account>" -Password "<password>"
```

NOTE: When entering the license key, include hyphens.

License Key Troubleshooting

Question

I have been unable to get Metalogix Content Matrix to recognize my license key. When I copy and paste it into the box, I get a "the specified license key is invalid" error.

Answer

Here are some things to check:

- Make sure that the license covers the product edition. (For example, if you are licensed for SharePoint Edition and Public Folder Edition and try to activate the license for eRoom Edition, the invalid error will display.)
- Confirm that the license you are installing is for the correct application versions of Metalogix Content Matrix. Contact Quest to verify that it is.
- When performing an offline key activation, make sure to enter the long key in its entirety, including the "=" symbol at the end of it.
- Verify that you have write privileges to the registry. The installer will fail if the registry is locked. In some cases there may be a group policy that is preventing the user from adding the key in the registry, despite the user having the correct permissions.
- Some versions of Windows will automatically block write access to the registry under the user account, even if that account has write access to the registry. In this case you can go to the application installation folder, right click on the application .exe file, and choose 'Run as Administrator'. Then re-enter the license key.

Using Proxies, Load Balancing or Alternate **Access Mappings**

Question

How does Metalogix Content Matrix deal with environments that use proxies, load balancing and/or alternate access mappings (AAM)?

Answer

Metalogix Content Matrix Console should not run into any issues with these three things. Metalogix Content Matrix uses the Metalogix Extensions Web Service (MEWS), which deploys over a whole farm and functions identically to a regular SharePoint web service. SharePoint web service's get the benefits of IIS redirection, proxy pushing, and anything else that SharePoint can utilize, such as Alternate Access Mappings (AAM). Since the Metalogix Extensions Web Service acts the same as a SharePoint web service it also gets all of these benefits.

In the case for load balanced environments the Metalogix Extensions Web Service would need to be deployed through the target side SharePoint farm. When the Web Service is installed it automatically gets deployed to all the SharePoint instances within that farm, as a SharePoint solution. Once the Web Service is installed on the target server, then load balancing should no longer be an issue.

There are, however, some cases where proxy settings may not work correctly by default. In these cases it is possible to set some specific proxy settings for the specified connection. Please see the **Configuring Proxy Settings** page for more details, or the **Manually Configuring Proxy Settings** page if the proxy settings need to be manually configured.

Errors Connecting to SharePoint 2019 or SharePoint Server Subscription Edition in a FIPS-Enabled Environment

Question

Why am I getting an error when I try to connect to SharePoint 2019 or SharePoint Server Subscription Edition in a FIPS-enabled environment?

Answer

Content Matrix uses some assemblies for FIPS compliance that are not supported for certain SharePoint 2019 and SharePoint Server Subscription Edition connections.

For a remote object model (MEWS) connection (displays for the top node) for SharePoint 2019:

Client found response content type of 'text/html; charset=utf-8', but expected 'text/xml'. The request failed with the error message: -- <!DOCTYPE html> <html>

For a local object model (OM) connection (displays at the item level for SharePoint 2019 and SharePoint Server Subscription Edition):

The type initializer for 'Microsoft.SharePoint.ApplicationRuntime.SPRequestModule' threw an exception

In addition, errors will display in Browser View and Items View.

For SharePoint Server Subscription Edition, you can connect using a remote object model (MEWS) connection.

Changing a Job Configuration for Multiple Files

Question

Is it possible to change the configuration for multiple job files at one time in the **Job List** section of Metalogix Content Matrix?

Answer

Yes, this is possible. Most users will only need to change the configuration of a single job in the **Job List** section, but it is possible to change the configuration for multiple jobs at one time.

In order to modify the configuration for multiple job files at one, select all of the jobs in the **Job List** section. Once all of the desired jobs are selected there are two methods that can be used to access the configuration dialog. The first is to click the **Change Configuration** button at the top of the **Job List**, and the second method is to open the context (right-click) menu, and select the **Change configuration** for selected jobs option.

The behavior for changing the configuration of multiple files at once changes slightly depending on the version of Metalogix Content Matrix Console that is being used.

Behavior in Versions 6.1.00 and Later

When changing the configuration for multiple files that use the same type of action at once, only settings that are changed during the re-configuration will be pushed into all of the selected jobs. This means that even if all of the jobs contain different settings, they will all still contain these different settings after the configurations have been modified. Only the settings that were re-configured will be changed (to whatever setting they were changed to).

Let's look at the example of three "Paste Site" jobs that are previously configured, and each has a different **Rename** action applied to it as well as a few various other differences in selected options. When the **Change Configuration** is applied to all three at once, only the settings that were reconfigured will be affected. So if the web part options were changed, then those options will be applied to all three jobs, but each will still retain their original **Rename** setting, and any other settings that were configured even if there are differences.

Behavior in Versions 6.0.0201 and Earlier

When changing the configuration for multiple files that use the same type of action at once, all of the selected files will have the options for the first job in the **Job List** section pushed into them, regardless of any other setting the previously used. Basically, all of the jobs after the first select job in the **Job List** will be modified to use all of the settings from the **Change Configuration** dialog.

Let's look at the example of three "Paste Site" jobs that are previously configured, and each has a different **Rename** action applied to it as well as a few various other differences in selected options. When the **Change Configuration** is applied to all three at once, all of the configuration options that are set for the first of the selected jobs in the **Job List** will be pushed to the two remaining jobs. These two remaining jobs would then use all of the exact same configuration options as the first job, including the values for the rename options. Any of the previous settings for the two remaining jobs would be lost (because they are replaced with the first jobs configuration options).

SharePoint 2013 and 2016 Site Collection Creation Issue

Question

I have been trying to create a new Site Collection in SharePoint 2013 or later through Metalogix Content Matrix but I have been encountering issues. Why is this happening? and what can I do about it?

Answer

Starting with SharePoint 2013, most web applications use **claims** authentication, but the Central Administration web application that manages the server **level settings** uses **classic** authentication. When Metalogix Content Matrix Console connects to a SharePoint server it has to authenticate through a web application. When connected to a SharePoint 2013 or later web application that uses Claims authentication, SharePoint itself can have trouble recognizing that the accessing User account has permissions in the web application areas that are managed by **Classic** authentication. This is also true if connected to a web application that uses **Classic** authentication, if trying to access an area managed by **Claims** authentication.

In SharePoint 2013 and later, the permissions to create Site Collections is managed by **Classic** authentication, so if connected through a **Claims** authentication web application users will receive a "401 Unauthorized" error message when trying to create a new Site Collection. This happens even if the user account has all of the appropriate permissions. If connecting through a **Classic** authentication web application, users will receive permission errors when trying to set any settings on a Site Collection that uses a **Claims** authentication web application, after the Site Collection is created.

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From internal testing, we have determined that SharePoint 2013 or later connections that use the Local Object Model connection will not run into this issue. This is because the Local OM connection type does not run authentication through IIS, which appears to be a trigger point for the authentication issues.

From testing we have also determined that you are still able to create SharePoint 2013 or later Site Collections when using the Remote OM connection type, but in order to do this Metalogix Content Matrix Console must elevate your permissions for the creation step. Before elevating any credentials, Metalogix Content Matrix Console will run a preliminary check to ensure the migrating user has enough permissions initially to be able to use the elevated Site Collection creation. In order for these elevated permissions to be used, the migrating user account must explicitly (by name) have "Full Control" permissions on the **Web Application** that the Site Collection is being created on.

In the Remote OM connection case users can also create a Site Collection within any **web application** if they are a member of the **Farm Administrator** group in SharePoint **and** they are connected to **Central Administration** as a farm connection.

Possible Errors when Creating Site Collection in SharePoint 2013 or later

Below is a list of errors (and their explanations) that you might encounter when trying to create Site Collections in SharePoint through Metalogix Content Matrix Console.

- Error Message 1 Unable to obtain Web Application '<web application name>'.
 Explanation/Resolution Metalogix Content Matrix is unable to find the web application. This should not occur unless a serious issue within SharePoint has occurred from the time the Site Collection configuration dialog was displayed, and the call to the Metalogix Extensions Web Service (for remote OM connections) was made to perform the Site Collection creation. Check your SharePoint environment, and resolve any issues. Then try again.
- Error Message2 Migrating user '<migrating user>' requires explicit Full Control on the web application where the site collection is intented to be created. If the migrating user is a member of the Farm Administrators group then connect to the Central Administration site and try again.

Explanation/Resolution - The migrating user has read permissions on the web application (using a farm or web connection type) that they're connected to, but does not have full control on the web application that they are trying to create the Site Collection in. To resolve this, the migrating user account must be added explicitly (by name) with **Full Control** to the respective Web Application that they are trying to create the site collection in. They can also create a Site Collection within any web application if they are a member of the **Farm Administrator** group in SharePoint, and they are connected to Central Administration as a farm connection.

Retrying Failed Document Copies to O365 CSOM Connections

Question

When I try to migrate some of my content into O365 using a SharePoint CSOM connection type, and this content contains a large Document Library, I see that some of my documents fail to migrate. The logs for the failure indicate that a "HTTP 500 - Internal Server Error" was thrown. What is the cause of this? And how can I fix it?

Answer

There is a potential issue when migrating specifically to SharePoint Online where users can encounter an "HTTP 500" error. This is caused by a combination of the CSOM adapter and SharePoint's document upload methods. To help resolve this issue there is a document retry feature that can be configured. This retry feature will attempt to upload the document(s) into the SharePoint Online target, and depending on the configured setting, will attempt to retry the upload process if it fails or times-out on the initial try.

The below steps will explain how to enable and configure this retry setting.

NOTE: This retry method is only meant for migrating to SharePoint Online targets. If you are migrating to an on premises target, then this retry feature will not benefit you since it makes use of O365 specific methods.

- 1. Make sure that the Metalogix Content Matrix client application is closed.
- 2. In the file system that the Metalogix Content Matrix Console client application is installed on, navigate to the the appropriate file location:
 - If you *are* required to be a local administrator on the machine where Content Matrix is installed: C:\ProgramData\Metalogix

OR

- If you are *not* required to be a local administrator on the machine where Content Matrix is installed: C:\Users\<username>\AppData\Roaming\Metalogix\Common
- 3. In this location there should be an **EnvironmentSettings.xml** file. Open this file in an editor program. For example, Notepad, etc.
- 4. There are two variables that will need to be modified in order for the retry method to work. They are:

- CSOMDocumentRetriesNumber This value determines the number of times that Metalogix Content Matrix will make another attempt to upload/migrate any document(s) that has failed the initial document upload try, when migrating to a SharePoint Online CSOM target.
- CSOMDocumentRetriesDelay This value determines the amount of time, in seconds (s), that Metalogix Content Matrix will wait before starting a document upload retry, and is based on the above ("CSOMDocumentRetriesNumber") variable.

NOTE: The default values for these two variables will be set as "0". Users can set these values as desired, based on what works best for their environment.

- 5. After the desired values have been entered in the two variables, save and close the file.
- 6. Restart the Metalogix Content Matrix client application. The changes should now be in Metalogix Content Matrix Console, and used when running any migration to a SharePoint Online target environment.

After these values have been set and the client application has been restarted, any documents that fail on the initial migration attempt we be retried.

Error Making a Browser-Based Connection with PowerShell Console Open

Question

Why do I get a "Manual Reconnection Required" error when I try to run a Metalogix Content Matrix job using PowerShell?

Answer

This error would occur if you used the Metalogix Content Matrix Console to connect to a SharePoint target with Web Browser Authentication while the PowerShell console is open. To avoid this issue, take the following steps:

1. Make sure that the PowerShell console is closed at the time you make a target connection via the Metalogix Content Matrix Console when Web Browser Authentication is used.

NOTE: After entering your credentials, be sure to check the Remember my Password box, as credentials must be stored in the Credential Manager vault before the connection is made.

2. After you have created your PowerShell job, close the Metalogix Content Matrix Console.

NOTE: At this point, it is recommended that you remove your Web Browser Authentication credentials from Windows Credential Manager. You will be prompted to re-enter them when the PowerShell job is run.

3. Launch the PowerShell console and run the job.

4. When prompted, re-enter the credentials you used to connect via the Metalogix Content Matrix Console. (Again, remember to check the **Remember my password** box.)

Support for GCC High Tenants

Question

Does Content Matrix support SharePoint Online GCC High connections?

Answer

Refer to the following table for specific target connections that Content Matrix supports for GCC High tenants.

IMPORTANT: In order to use ADFS authentication with a GCC High tenant you must first run a utility provided by Quest Support and enable the setting **EnableUserProvidedAuthentication**. Refer to the Quest Support Knowledge Base article <u>Enabling User Provided Authentication in Content Matrix</u> for details.

OAuth	OAuth with MFA	ADFS	ADFS (Office 365 User Provided Authentication)	Web Browser Authenticatio n	Office 365 Web Browser Authentication
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