

Archive Manager Quick Setup Guide

This guide will take you through the easiest route to get Archive Manager installed and running. Archive Manager is very flexible, but because of this it can also be more challenging to deploy than a more rigid solution. The steps below will get you up and running, however we recommend that you read the user guide and experiment with Archive Manager before you set it off archiving your live file system.

PLEASE FOLLOW ALL OF THE STEPS BELOW EXACTLY AS THEY ARE GIVEN. ONCE COMPLETED PLEASE REFER TO THE FULL USERGUIDE.

If you are upgrading from an earlier version please see the full User Guide.

Supported Operating Systems:

Archive Manager can be installed on any Windows operating system from Windows 2000 onwards. However, we recommend that you install it on Windows 2003 or later.

Please note that Hard Link functionality will only be available if Archive Manager is installed on Windows Vista, Windows 7 or Windows 2008 Server (Hard Links will also only work with Windows Vista, Windows 7, Windows 2008 Server, or later clients).

Operating systems earlier than this do not have the required support for Hard Links built into the OS. If you want to use Hard Links then:

- a) Your live file servers (the ones you will archive content from) must be running Windows 2008 Server or later.
- b) The server you will be archiving content too must be running Windows 2008 Server or later.
- c) Any workstations that will be accessing archived files via their Archive Manager Hard Links must be running Windows Vista, Windows 7 or later.

Prerequisites

Archive Manager requires the installation of the following components, if any components are unavailable the installation routine will attempt to download them from the MLtek website and install them before continuing.

- 1) SQL Express 2005 SP2
- 2) Microsoft .Net Framework 3.5 SP1
- 3) Windows Installer 3.1

If you have any problems installing Archive Manager please do not hesitate to contact us via Support@MLtek.co.uk.

Service User Account:

During the installation you will be prompted to enter the details of the user account that you want the Archive Manager Job Engine Service to run as.

This account MUST be granted the following rights...

- Have 'Full Control' permissions over all the files you will be archiving.
- Have 'Full Control' permissions over the location(s) you will be archiving too.
- Have the 'Create Symbolic Links' right on the machine Archive Manager is installed on, any machines it will archive content from and any machines it will archive content too.
- Have the 'Manage Auditing and Security Log' right on the machine Archive Manager is installed on, any machines it will archive content from and any machines it will archive content too.

The easiest way to accomplish this is to make the account a member of the 'Domain Administrator's' group.

If the account you are using to run the Archive Manager Job Engine Service is not going to be a member of the Domain Administrators group, then in addition to requiring suitable NTFS rights to be set up so it can access your file shares with Full Control permissions, it needs to have the two extra rights granted to it.

It must have these specified on a) the machine it is running on b) any machines it will archive files from c) and machines it will archive files too.

You can grant these rights by either adjusting the Local Security Policy on the relevant machines, or by using Active Directory Group policies and specifying the settings in the Default Domain Policy 'Create Symbolic Links' = Open 'Local Security Policy' on the machine Archive Manager is installed on.

The relevant setting can be found under 'Local Policies' -> 'User Rights Assignment'. Edit the 'Create Symbolic Links' entry and add the account you created in step 3.

Alternatively you can set the settings using the Default Domain Group policy in Active Directory. 'Computer Configuration' -> 'Policies' -> 'Windows Settings' -> 'Security Settings' -> 'Local Policies' -> 'User Rights Assignment'.

'Manage Auditing and Security Log' = When Archive Manger archives a file it makes a copy of it in an archive, copies all attributes and security access options to it and then compares the copy to the original file before deleting the original file.

The security access options not only include the NTFS Access Control Lists, but also the auditing options as well. To replicate the auditing settings the chosen account needs the 'Manage Auditing and Security Log' right

The relevant setting can be found under 'Local Policies' -> 'User Rights Assignment'. Edit the 'Manage Auditing and Security Log' entry and add the account you created in step 3. Alternatively you can set the settings using Default Domain Group policy in Active directory. 'Computer Configuration' -> 'Policies' -> 'Windows Settings' -> 'Security Settings' -> 'Local Policies' -> 'Manage Auditing and Security Log'.

Disable User Account Control on the Machine Archive Manager is Installed on.

The user rights that are granted to the account you want Archive Manager to use count as an elevated privilege. With User Account Control enabled Windows will prompt you before you use an elevated privilege, asking you to confirm if you want to perform the action in question.

Unfortunately, if a service wants to use an elevated privilege, there is no way for User Account Control to prompt for confirmation in the same way it would do for a user. Instead of letting the action go through, it blocks it.

The only way around this is to disable User Account Control on the Machine in question. Click on the Windows 'Start' button, and then click on 'Run'. Type 'MSCONFIG' and press return. MSCONFIG will now open.

Click on the 'Tools' tab, then click on 'Disable UAC', click on the 'Launch' button, then once the command has executed reboot the machine when it is convenient.

Archive Share

Set up an empty share on your network in the location that you would like to store your archived files. The share should ideally be hosted on a computer running Windows 2008 Server\Windows Vista\Windows 7 or later. If this is not possible then it should be hosted on a machine running at least Windows 2003 Server.

This would typically be a share on a volume hosted on an older second line server that has been reloaded with a later operating system, although ... any empty share on any system running Windows 2000 or later should work.

Set the share permissions to allow 'Full Control' to 'Authenticated Users', then ensure the NTFS permissions will allow normal users 'modify' rights and the Archive Manager Service Account created previously 'Full Control'.

If there are entries for 'System', 'Administrator', 'Administrators' or 'Domain Administrators' they should not be removed/changed.

Running the Install

Once you have carried out the above steps, you are ready to install Archive Manager. Run the installation routine on the machine you want to install Archive Manager on, following the instructions on screen.

Configuring your Workstations

If you intend to use Hard Links then you need to enable support for them on your workstations. Even though Windows Vista, Windows 7 and Windows 2008 Server all support Hard Links out of the box, they ship with the functionality disabled.

To enable them you need to set the following registry keys on each machine.

The example settings below will enable client machines to evaluate links that sit on a dedicated file server, and that link to an archive stored on either the file server or another machine.

To ease deployment you can copy and paste the text below into a .reg file which can be imported at logon by logon scripts, or the settings can be distributed via group policies.

Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SYSTEM\ControlSet\Control\FileSystem]

"SymLinkLocalToLocalEvaluation"=dword:00000001

"SymLinkLocalToRemoteEvaluation"=dword:00000001

"SymLinkRemoteToRemoteEvaluation"=dword:00000001

"SymLinkRemoteToLocalEvaluation"=dword:00000001