



StoragePoint 6.5

File System Adapter Guide



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Legend



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



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

Quest® StoragePoint

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FileSystem Adapter Configuration

This section will provide you with details on how to configure a storage endpoint's connection string to utilize the File System Adapter, which is standard with StoragePoint. Please refer to the StoragePoint Reference Guide for information on managing Storage Endpoints.

On the Application Management page, click *Storage and Backup Endpoints*.

Click *Create New Endpoint* or click the name of an existing storage endpoint that you want to edit.

Click the *Show* link next to the Advanced Adapter Settings to see the additional fields.

Adapter
 ?

Adapter Settings Show Connection String

Path

Advanced Adapter Settings *(Hide)*

Deletion Method

Buffer Size

Support Metadata

FileSystem Adapter Connection String Parameters

Setting	Value/Options
Name	<input type="text" value="Endpoint_Name"/> Enter the unique name of the Storage or Backup Endpoint.

Setting
Value/Options

Type

Type

Primary Backup

See Backup Services Settings in the Reference Guide for more information on how Backup Endpoints are used.

Primary– this endpoint will be available for externalization when creating storage profiles.

Backup– this endpoint will be in the Backup Services dropdown on the profile page.

The selection is locked down when saving.

Status

Status

Online

Online– Storage Endpoint should be available to associate to a Storage Profile and accept BLOBs. (default)

Offline (Read Only)– A storage endpoint can be configured but not made available for externalizing content. The BLOBs already on the endpoint are still read only.

Adapter

FileSystem 

Select the adapter for the endpoint that is being created. The *FileSystem* adapter is installed with the core product by default.

Adapter Settings

Show Connection String

Path

Enter an adapter-specific connection string in this box.

Setting
Value/Options

Advanced Adapter Settings *(Hide)*

Deletion Method

Normal ▼

Buffer Size

8192

Support Metadata

False ▼

Deletion Method - This option controls how BLOBS are deleted. Audit: Files are renamed. Normal: Files are deleted. Shred: Files are securely deleted.

Buffer Size - This option influences an internal buffer size and should not be changed unless directed by customer support.

Support Metadata - This option determines whether an extra 'xml' file with associated metadata is written out for each BLOB.

Is WORM Device

No ▼

If the endpoint is on a WORM (Write Once, Read Many) device, the Unused BLOB Cleanup timer job will ignore this endpoint.

Folder Content in BLOB Store

No ▼

Folder Scheme

YYYY/MM/DD/HH/MM ▼

No– Externalized content BLOBs are not placed in folders (default).

Yes– Externalized content BLOBs are placed in folders.

If *Folder Content in BLOB Store* is *Yes*, you can select a date/time folder scheme from the dropdown.

YYYY/MM/DD/HH/MM is the default.

Test Storage Settings

The Test Storage Settings button can be used at this point, or after completing the endpoint configuration, to verify that the endpoint is accessible.

Setting
Value/Options

Compress Content in BLOB Store

No

Content is compressed using the GZip/Deflate method.

No– Externalized content BLOBs are not compressed (default).

Yes– Externalized content BLOBs are compressed.

Encryption Method for Content in BLOB Store

None

None– Encryption will not be applied to externalized BLOBs (default).

AES (128 bit)– 128 bit AES encryption will be applied to externalized BLOBs.

AES (256 bit)– 256 bit AES encryption will be applied to externalized BLOBs.

Encryption Key Passphrase

Generate Key

*Enter a passphrase to be used to generate a key or leave blank to generate a random key. The passphrase entered is **not** saved with the Endpoint.*

Enter a passphrase to use when generating the encryption key. Using a passphrase will help you re-create the encryption key if necessary. You can generate a random key by leaving the box blank and clicking the *Generate Key* button. The encryption key passphrase will be hidden.

Generate warning notification if:

10 or more successive errors are encountered

there is less than 10 MB % of free space

Automatically take endpoint offline if:

25 or more successive errors are encountered

there is less than 1 MB % of free space

A warning email can be sent if it encounters errors or is nearing capacity.

An online storage endpoint can be automatically taken offline if it encounters errors or is nearing capacity. If a storage endpoint is taken offline automatically, BLOBs that were intended to be written to that endpoint will go to the content database.

Setting
Value/Options

Send Offline Notifications to:

Use Notification Defaults

Additional Contacts

admin@contoso.com;systems@contoso.com

Provide a semi-colon delimited list of e-mail addresses.

Default email addresses for system error and offline notification can be entered. Check the box to include the list of Default Notification Contacts specified on the General Settings page.

Example Storage Endpoint using FileSystem Adapter

The screenshot shows the 'Storage Settings' interface for the 'FileSystem' adapter. The 'Adapter' dropdown is set to 'FileSystem'. The 'Path' field contains '\\Det-qa-2019wfe1\d\General FS Endpoint'. The 'Advanced Adapter Settings' section is expanded, showing 'Deletion Method' set to 'Normal', 'Buffer Size' set to '8192', and 'Support Metadata' set to 'False'. The 'Show Connection String' checkbox is unchecked.

Click the *Show Connection String* checkbox to edit the connection string. Otherwise, fill in the connection fields shown for the adapter selected. Notice that the connection string parameters are name/value pairs separated by semi-colons.

The screenshot shows the 'Storage Settings' interface for the 'FileSystem' adapter. The 'Adapter' dropdown is set to 'FileSystem'. The 'Show Connection String' checkbox is checked. The 'Connection' field contains the following text: 'PATH=\\Det-qa-2019wfe1\d\General FS Endpoint:AUDITDELETE=False:BUFFERSIZE=8192:SHREDONDELETE=False:USEMETA=False:'. Below the field, there is a note: 'Provide adapter-specific connection attributes. Please refer to the adapter documentation for connection string details.'

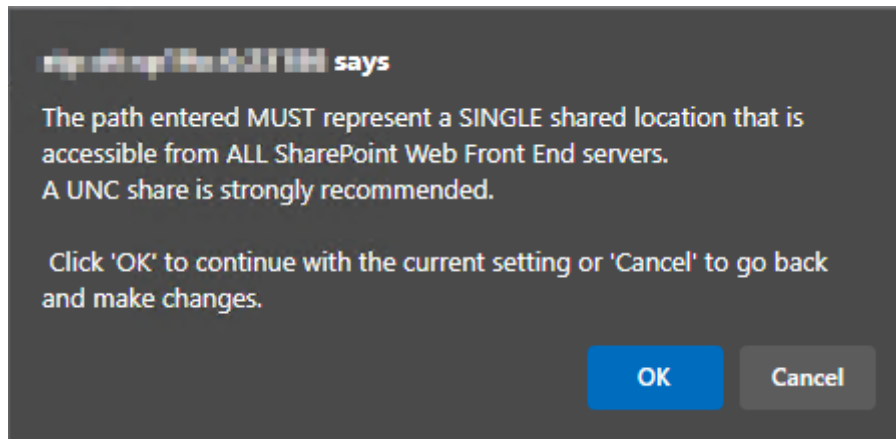
i | **NOTE:** Adapter parameters are not case-sensitive.

i | **NOTE:** You should always use a passphrase when generating encryption keys. The passphrase gives you a means of re-creating keys should they become unrecoverable or corrupt. It is very important to remember or record the passphrase outside of StoragePoint. Otherwise, encrypted content could become irretrievable in the event of a database failure.

If you choose to externalize content, you should test the storage profile settings by clicking the *Test Storage Settings* button. A message under the button will indicate whether or not the test was successful. If the test fails, the message will include the error that was the root cause of the failure.

i | **NOTE:** When testing access to an endpoint (fileshare) from within Central Administration, the Identity of the Application Pool hosting the Central Administration Site is the one that is being used for the test. If there are different Identities used for other Web Applications in the Farm, those identities will also need access but cannot be tested from within Central Admin itself. See BLOB Store Security and StoragePoint Required Privileges in the StoragePoint Reference Guide.

If the path you entered for your FileSystem storage endpoint is not in a UNC format, you will see this message when saving to verify that your storage endpoint is accessible by all the WFEs in your SharePoint farm.



FileSystem Adapter Connection String Options

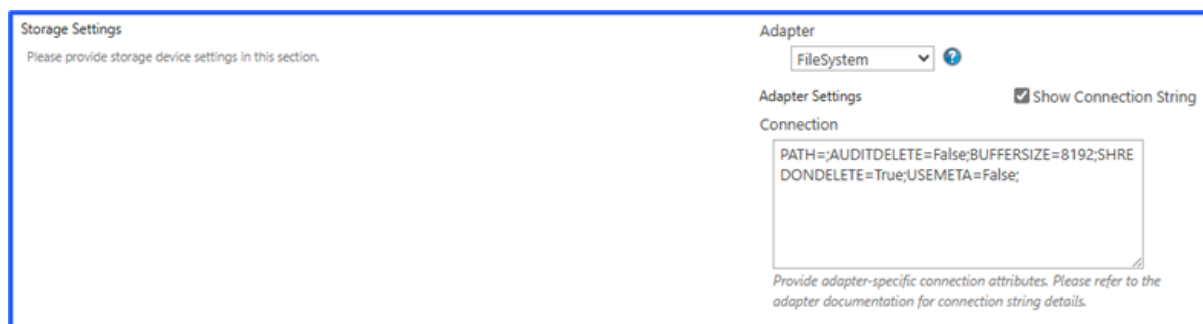
The built-in FileSystem adapter in StoragePoint has a number of options to enable specific diagnostic and enhanced functionality. These options must be specified as attributes in the Connection string on the storage endpoint.

Shred BLOB Files on Delete

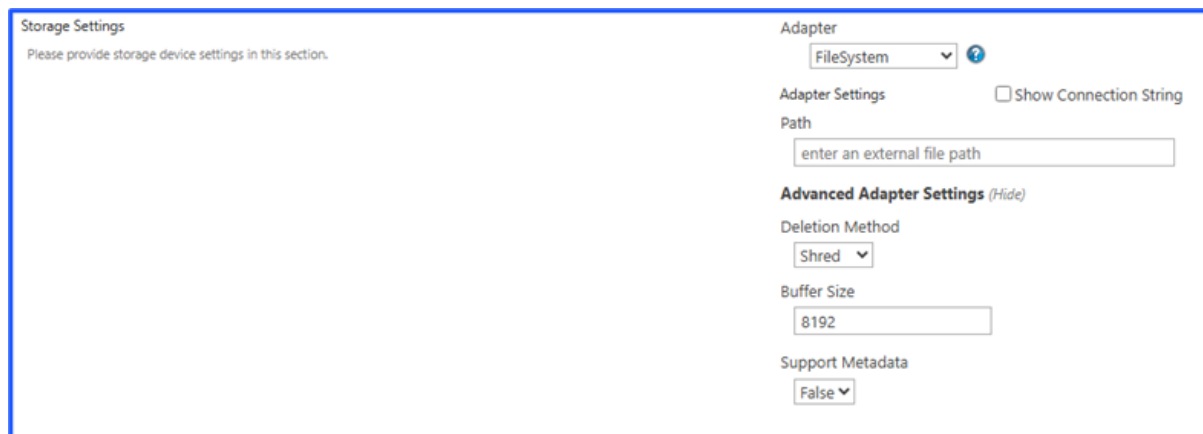
The Shred on Delete option will cause the Unused BLOB Cleanup Job and Recall jobs to do a “secure” delete when they remove files from the external BLOB store. A “secure” delete consists of writing several passes of 0’s, 1’s and random bit patterns over the file before deleting it on the file store. This prevents the file from being recovered using file deletion recovery tools.

This option is turned on by appending "SHREDONDELETE=True" to the Connection string of a profile that uses the FileSystem adapter:

Click the Show Connection String checkbox to edit the string.



Or click the Show link next to the Advanced Adapter Settings to see the drop down field.



The screenshot shows the 'Storage Settings' configuration page. On the left, there is a large empty box with the text 'Please provide storage device settings in this section.' On the right, the configuration options are as follows:

- Adapter:** A dropdown menu set to 'FileSystem' with a help icon.
- Adapter Settings:** A checkbox labeled 'Show Connection String' which is currently unchecked.
- Path:** A text input field containing the placeholder text 'enter an external file path'.
- Advanced Adapter Settings (Hide):** A section header.
- Deletion Method:** A dropdown menu set to 'Shred'.
- Buffer Size:** A text input field containing the value '8192'.
- Support Metadata:** A dropdown menu set to 'False'.

Please keep the following limitations in mind when using this feature:

- Deletions of BLOB files only occur when the Unused BLOB Cleanup and Recall jobs remove them. Deleting a document in SharePoint does not immediately remove it from the BLOB store.
- Not all devices support secure delete. Most SCSI and SATA drives support the necessary device options. Some CIFS shares and other remote file store devices may not support it. It is important to test the option after turning it on.
- Many dedicated filer devices offer device level secure delete (i.e. HCAP, Centera, etc.). It is preferable to use the device's capabilities if they are present.
- Deletions of BLOB files are never guaranteed. Although unlikely, it is possible a BLOB file may be "leaked" on the BLOB store and not cleaned up by the Unused BLOB Cleanup Job. StoragePoint support has tools to help clean these up periodically.
- This option is specific to the StoragePoint FileSystem adapter. It does not work on other storage adapters.

Deletion Audit

The Deletion Audit option stops StoragePoint from physically deleting orphaned BLOB files. Instead, they are renamed with a .DEL extension. In addition, every time StoragePoint attempts to delete a BLOB file, a log entry is made in the SharePoint logs to identify information about the deletion. This option should be used if the removal of content BLOBs from the file store needs to be audited first. In this case, the removal of the .DEL files is the responsibility of the client (i.e. StoragePoint does not remove these).

This option is turned on by appending ";AUDITDELETE=true" to the Connection string of a profile that uses the FileSystem adapter:

Click the Show Connection String checkbox to edit the string.



Storage Settings
Please provide storage device settings in this section.

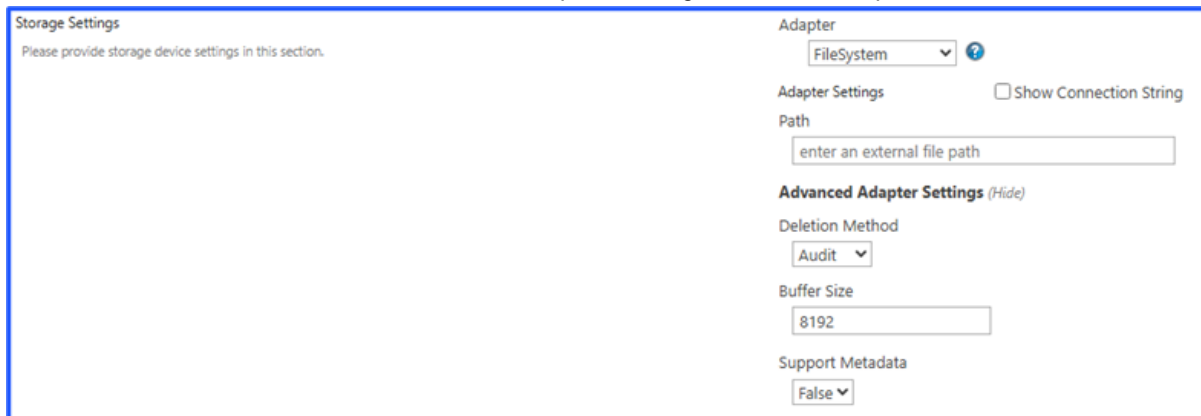
Adapter
FileSystem

Adapter Settings Show Connection String

Connection
PATH=;AUDITDELETE=True;BUFFERSIZE=8192;SHRE
DONDELETE=True;USEMETA=False;

Provide adapter-specific connection attributes. Please refer to the adapter documentation for connection string details.

Or click the Show link next to the Advanced Adapter Settings to see the drop down field.



Storage Settings
Please provide storage device settings in this section.

Adapter
FileSystem

Adapter Settings Show Connection String

Path
enter an external file path

Advanced Adapter Settings (Hide)

Deletion Method
Audit

Buffer Size
8192

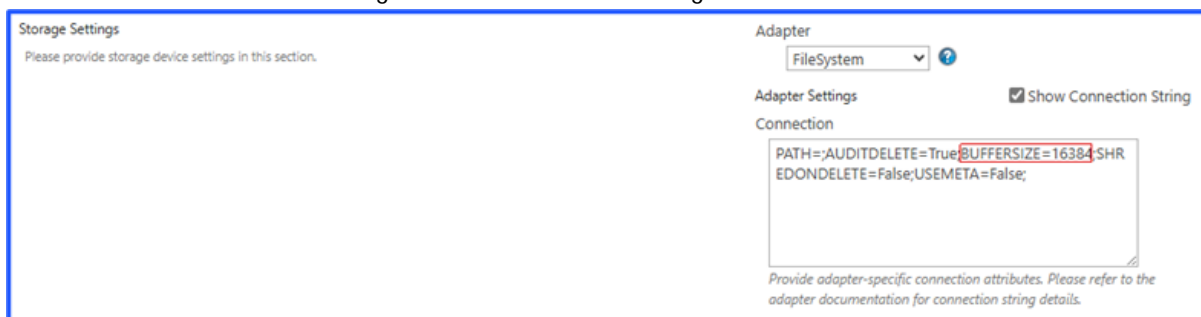
Support Metadata
False

Buffer Size

The Buffer Size option is used to override the StoragePoint read/write buffer size default of 8192. The StoragePoint default is tuned for maximum performance on most devices. The value can be modified if it is suspected that a different buffer size would be more optimal for a given device. Please be aware that it is recommended that you do not change this setting and that increasing it does not necessarily increase performance. In fact, in many cases, increasing it will decrease performance.

This option is specified by appending ";BUFFERSIZE=xxxx" (where *xxxx* is the size to make the buffer) to the Connection string of a profile that uses the FileSystem adapter.

Click the Show Connection String checkbox to edit the string.



Storage Settings
Please provide storage device settings in this section.

Adapter
FileSystem

Adapter Settings Show Connection String

Connection
PATH=;AUDITDELETE=True;BUFFERSIZE=16384;SHR
EDONDELETE=False;USEMETA=False;

Provide adapter-specific connection attributes. Please refer to the adapter documentation for connection string details.

Or click the Show link next to the Advanced Adapter Settings to see the text field.

The screenshot shows the 'Storage Settings' configuration page. On the left, there is a large empty text area with the instruction 'Please provide storage device settings in this section.' On the right, the 'Adapter' is set to 'FileSystem'. Below it, the 'Adapter Settings' section includes a checkbox for 'Show Connection String' which is currently unchecked. The 'Path' field contains the placeholder text 'enter an external file path'. The 'Advanced Adapter Settings (Hide)' section is expanded, showing a 'Deletion Method' dropdown set to 'Audit', a 'Buffer Size' text field containing '16384', and a 'Support Metadata' dropdown set to 'False'.

Support Metadata

The Support Metadata option causes an additional file to be created for each BLOB written. This additional file will share the same name as the BLOB and include an extension of ".xml". It contains a snapshot of available SharePoint metadata. This metadata file will be created and populated on a "best effort" basis. The metadata snapshot file lives in the BLOB-store until the BLOB itself is deleted. At that time the xml file is also removed.

This option is turned on by appending ";USEMETA=true" to the Connection string of a profile that uses the FileSystem adapter. This behavior is turned off by default and must be turned on explicitly if desired.

Click the Show Connection String checkbox to edit the string.

This screenshot shows the same 'Storage Settings' page, but with the 'Show Connection String' checkbox checked. The 'Connection' text area now displays the following string: 'PATH=;AUDITDELETE=True;BUFFERSIZE=16384;SHR EDONDELETE=False;USEMETA=True;'. The 'USEMETA=True;' portion of the string is highlighted with a red box. Below the text area, there is a note: 'Provide adapter-specific connection attributes. Please refer to the adapter documentation for connection string details.'

Or click the Show link next to the Advanced Adapter Settings to see the drop down fields.

The screenshot shows the 'Storage Settings' configuration page for the 'FileSystem' adapter. The page includes a 'Path' input field with the placeholder text 'enter an external file path'. Below this is the 'Advanced Adapter Settings' section, which is currently hidden. Within this section, the 'Support Metadata' dropdown menu is set to 'True' and is highlighted with a red rectangular box. Other visible settings include 'Deletion Method' set to 'Audit' and 'Buffer Size' set to '16384'. A 'Show Connection String' checkbox is also present.

Please keep the following limitations in mind when using this feature:

- Enabling this option takes up slightly more space in the BLOB-store in order to accommodate the metadata.
- Enabling this option may result in slightly longer times performing BLOB writes and deletions.
- Metadata is written asynchronously compared to the actual BLOB contents. As a result, there can be a lag between the commit of a BLOB and its associated metadata.
- This option is specific to the StoragePoint FileSystem adapter. Please see the documentation of our other adapter(s) to find out if and how metadata is supported.

VerifyWrites

This option posts back to StoragePoint to validate that the BLOB was written to the endpoint. It is not part of the connection string by default but can be added by editing the connection string only; there is no user interface for this option. If verbose logging is enabled, the logs may contain information such as 'Written file verified as present: <filename>.'

```
VERIFYWRITES=true;
```

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- Chat with support engineers online
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