

Metalogix® StoragePoint 6.1.1

## Caringo CASTor 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.

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# Contents

|   |           |
|---|-----------|
| <b>CASstor Adapter Configuration</b> .....                                      | <b>4</b>  |
| CASstor Adapter Connection String Parameters .....                              | 4         |
| Example Storage Endpoint using CASstor Adapter .....                            | 8         |
| Appendix: Troubleshooting .....   | 9         |
| Problem: Receiving errors on storage or retrieval of externalized content. .... | 9         |
| <b>About Us</b> .....   | <b>10</b> |
| Contacting Quest .....  | 10        |
| Technical Support Resources .....   | 10        |

# CAStor Adapter Configuration

This section will provide you details on how to configure a storage endpoint's connection string to utilize the CAStor Adapter. 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  
CAStor

**Adapter Settings**  Show Connection String

Host(s)  
enter one or more cluster hosts

**Advanced Adapter Settings (Hide)**

Port  
80

Retry  
5

Timeout  
300

## CAStor Adapter Connection String Parameters

| Setting Value/Options   |
|---|
| <p>Name</p> <p>Enter the unique name of the Storage or Backup Endpoint.</p>   |
| <p>Type</p> <p>Type</p> <p><input checked="" type="radio"/> Primary <input type="radio"/> Backup</p> <p><i>Primary</i>– this endpoint will be available for externalization when creating storage profiles.</p> |

## Setting Value/Options

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

The selection is locked down when saving.

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

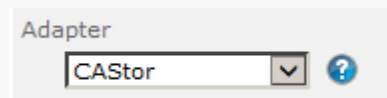
### Status



A screenshot of a web form showing a dropdown menu labeled 'Status'. The dropdown is open, and 'Online' is selected and displayed in the input field.

*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.



A screenshot of a web form showing a dropdown menu labeled 'Adapter'. The dropdown is open, and 'CASstor' is selected and displayed in the input field. A help icon (question mark) is visible to the right of the dropdown.

Select the adapter for the endpoint that is being created.



A screenshot of a web form showing an input field labeled 'Host(s)'. The field contains the IP address '10.12.225.225'.

IP or DNS name chosen at the time your storage solution was provisioned which represents the CASstor system or specific node to be used. This can also be a comma separated list of CASstor node addresses if working with a cluster.

Single host examples:

mycluster.company.com

Or

192.168.1.42

High Availability Example (in this case three hosts):

192.168.1.10, 192.168.1.20, 192.168.1.30

## Setting Value/Options

### Advanced Adapter Settings *(hide)*

Port

The port number used to communicate with the CAStor instance. Default=80.

Retry

Specifies the number of attempts to retry the network connection to CAStor before returning a failure result in case of network disruption or connectivity issues. Default = 5.

Timeout

Number of milliseconds to wait for a response to any request before considering it an excessively long wait and raising an error condition. Default = 300.

Folder Content in BLOB Store

 ▾

Folder Scheme

 ▾

*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* then you can select a date/time folder scheme from the dropdown.

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

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

Compress Content in BLOB Store

 ▾

*Content is compressed using the GZip/Deflate method.*

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

*Yes*– Externalized content BLOBs are compressed.

## Setting Value/Options

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 pass phrase 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

A warning email can be sent if it encounters errors.

Automatically take endpoint offline if:

- 25 or more successive errors are encountered
- there is less than 1  MB  % of free space

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

Send Offline Notifications to:

Use Notification Defaults

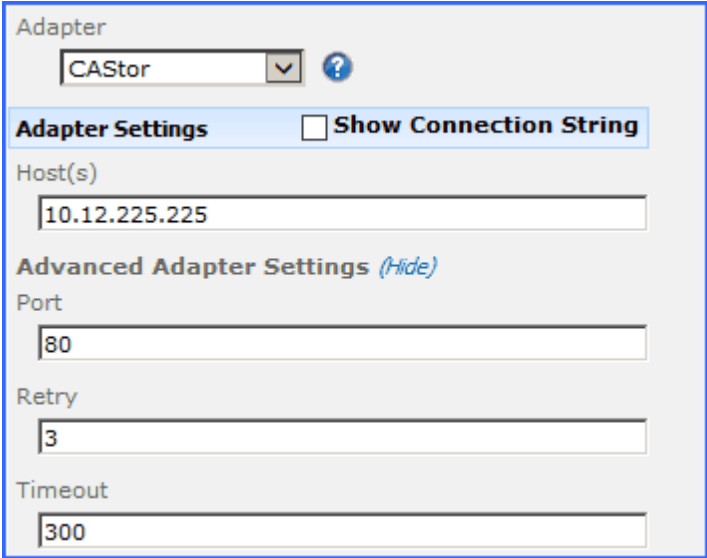
Additional Contacts

admin@company.com

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

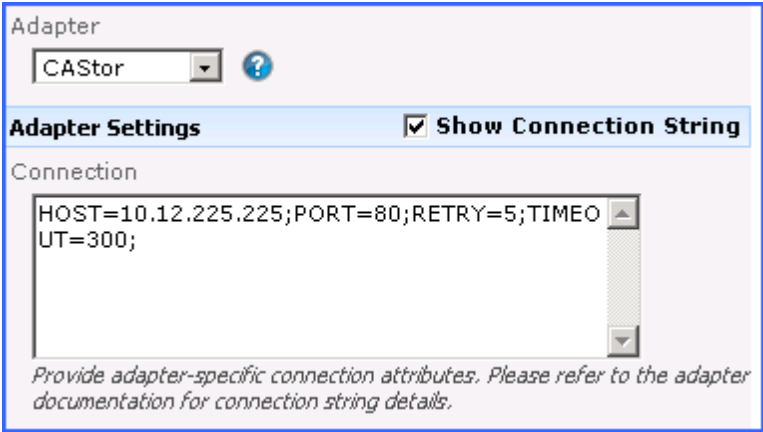
Default email addresses for system error and offline notification can be entered. Check the box to include the list of Default Notification Contacts specified on the General Settings page.

# Example Storage Endpoint using CASTor Adapter



The screenshot shows the 'Adapter' configuration window for 'CASTor'. The 'Adapter' dropdown is set to 'CASTor'. Below it, the 'Adapter Settings' section has the 'Show Connection String' checkbox unchecked. The 'Host(s)' field contains '10.12.225.225'. The 'Advanced Adapter Settings (Hide)' section is expanded, showing 'Port' as '80', 'Retry' as '3', and 'Timeout' as '300'.

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 'Adapter' configuration window for 'CASTor'. The 'Adapter' dropdown is set to 'CASTor'. Below it, the 'Adapter Settings' section has the 'Show Connection String' checkbox checked. The 'Connection' field contains the string 'HOST=10.12.225.225;PORT=80;RETRY=5;TIMEOUT=300;'. 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 Metalogix 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 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 then those identities will also need access but cannot be tested from within Central Admin itself. See BLOB Store Security and Metalogix StoragePoint Required Privileges in the Metalogix StoragePoint Reference Guide.

## Appendix: Troubleshooting

### Problem: Receiving errors on storage or retrieval of externalized content.

Wherever possible, StoragePoint surfaces error messages returned by CASTor either directly to the user or within the SharePoint ULS logs. You should refer to your CASTor documentation for errors logged by the CASTor Adapter.

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