

Metalogix® StoragePoint 5.9.2

Caringo CASTor Adapter Guide



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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.

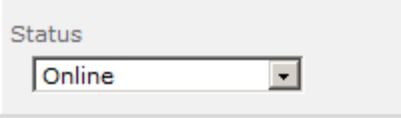


On the Application Management page, click *Storage and Backup Endpoints*.

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.

CAStor Adapter Connection String Parameters

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

Setting	Value/Options
<p>See Backup Services Settings in the Reference Guide for more information on how Backup Endpoints are used.</p>	<p><i>Backup</i>– this endpoint will be in the Backup Services dropdown on the profile page.</p> <p>The selection is locked down when saving.</p>
<p>Status</p> 	<p><i>Online</i>– Storage Endpoint should be available to associate to a Storage Profile and accept BLOBs. (default)</p> <p><i>Offline (Read Only)</i>– A storage endpoint can be configured, but not made available for externalizing content. The BLOBs already on the endpoint are still read only.</p>
<p>Adapter</p> 	<p>Select the adapter for the endpoint that is being created.</p>
<p>Host(s)</p> 	<p>IP or DNS name chosen at the time your storage solution was provisioned which represents the CAStor system or specific node to be used. This can also be a comma separated list of CAStor node addresses if working with a cluster.</p> <p>Single host examples:</p> <p>mycluster.company.com</p> <p>Or</p> <p>192.168.1.42</p> <p>High Availability Example (in this case three hosts):</p> <p>192.168.1.10, 192.168.1.20, 192.168.1.30</p>

Setting	Value/Options
<p>Advanced Adapter Settings <i>(Hide)</i></p> <p>Port</p> <input data-bbox="233 376 844 416" type="text" value="80"/>	<p>The port number used to communicate with the CASTor instance. Default=80.</p>
<p>Retry</p> <input data-bbox="233 517 850 557" type="text" value="3"/>	<p>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.</p>
<p>Timeout</p> <input data-bbox="233 801 844 842" type="text" value="300"/>	<p>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.</p>
<p>Is WORM Device</p> <input data-bbox="300 1133 389 1173" type="text" value="No"/>	<p>If the endpoint is on a WORM (Write Once, Read Many) device, Unused BLOB Cleanup will ignore this endpoint.</p>
<p>Folder Content in BLOB Store</p> <input data-bbox="233 1301 322 1341" type="text" value="Yes"/> <p>Folder Scheme</p> <input data-bbox="233 1391 560 1431" type="text" value="YYYY/MM/DD/HH/MM"/>	<p><i>No</i>– Externalized content BLOBs are not placed in folders.</p> <p><i>Yes</i>– Externalized content BLOBs are placed in folders (default).</p> <p>If <i>Folder Content in BLOB Store</i> is <i>Yes</i> then you can select a date/time folder scheme from the dropdown.</p> <p>YYYY/MM/DD/HH/MM is the default.</p>
<p><input data-bbox="240 1832 533 1872" type="button" value="Test Storage Settings"/></p>	<p>The Test Storage Settings button can be used at this point, or after completing the endpoint</p>

Setting	Value/Options
	configuration, to verify that the endpoint is accessible.
<p>Compress Content in BLOB Store</p> <p><input type="button" value="No"/> ▾</p> <p><i>Content is compressed using the GZip/Deflate method.</i></p>	<p><i>No</i>– Externalized content BLOBs are not compressed (default).</p> <p><i>Yes</i>– Externalized content BLOBs are compressed.</p>
<p>Encryption Method for Content in BLOB Store</p> <p><input type="button" value="None"/> ▾</p>	<p><i>None</i>– Encryption will not be applied to externalized BLOBs (default).</p> <p><i>AES (128 bit)</i>– 128 bit AES encryption will be applied to externalized BLOBs.</p> <p><i>AES (256 bit)</i>– 256 bit AES encryption will be applied to externalized BLOBs.</p>
<p>Encryption Key Passphrase</p> <p><input type="text"/> <input type="button" value="Generate Key"/></p> <p><i>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.</i></p>	<p>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 <i>Generate Key</i> button. The encryption key passphrase will be hidden.</p>
<p>Generate warning notification if:</p> <p><input checked="" type="checkbox"/> <input type="text" value="10"/> or more successive errors are encountered</p> <p><input checked="" type="checkbox"/> there is less than <input type="text" value="10"/> <input checked="" type="radio"/> MB <input type="radio"/> % of free space</p>	<p>A warning email can be sent if it encounters errors.</p>
<p>Automatically take endpoint offline if:</p> <p><input checked="" type="checkbox"/> <input type="text" value="25"/> or more successive errors are encountered</p> <p><input checked="" type="checkbox"/> there is less than <input type="text" value="1"/> <input checked="" type="radio"/> MB <input type="radio"/> % of free space</p>	<p>An online storage endpoint can be automatically taken offline if it encounters errors. If a storage endpoint is taken offline automatically, BLOBs that were</p>

Setting	Value/Options
	intended to be written to that endpoint will go to the content database.
<p>Send Offline Notifications to:</p> <p><input checked="" type="checkbox"/> Use Notification Defaults</p> <p>Additional Contacts</p> <p><u>admin@company.com</u></p> <p><i>Provide a semi-colon delimited list of e-mail addresses.</i></p>	<p>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.</p>

Example Storage Endpoint using CAStor Adapter

Adapter

CAStor ?

Adapter Settings Show Connection String

Host(s)

10.12.225.225

Advanced Adapter Settings (Hide)

Port

80

Retry

3

Timeout

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.



Adapter

CASstor

Adapter Settings **Show Connection String**

Connection

```
HOST=10.12.225.225;PORT=80;RETRY=5;TIMEOUT=300;
```

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

NOTE: Adapter parameters are not case-sensitive.

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.

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 CASstor either directly to the user or within the SharePoint ULS logs. You should refer to your CASstor documentation for errors logged by the CASstor Adapter.

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The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

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- View how-to-videos
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- Chat with support engineers online
- View services to assist you with your product