

Metalogix® StoragePoint 6.0.

EMC DataDomain 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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EMC DataDomain Adapter Configuration

This section will provide you details on how to configure a storage endpoint's connection string to utilize the EMC DataDomain 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
EMCDataDomain 

Adapter Settings Show Connection String

Host

Share

Use SSL

User

Password

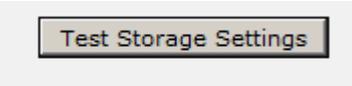
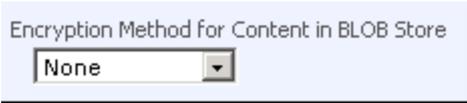
Retention
 None
 Date Format
  12 AM 00
 Duration/Interval Day(s)

Advanced Adapter Settings *(Hide)*
Buffer Size

DataDomain Connection String Parameters

| Setting | Value/Options |
|---|--|
| <p>Name</p> | <p>Enter the unique name of the Storage or Backup Endpoint.</p> |
| <p>Type</p> <div data-bbox="204 568 542 667"> <p>Type</p> <p><input checked="" type="radio"/> Primary <input type="radio"/> Backup</p> </div> <p>See Backup Services Settings in the Reference Guide for more information on how Backup Endpoints are used.</p> | <p><i>Primary</i>– this endpoint will be available for externalization when creating storage profiles.</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> <div data-bbox="204 1010 611 1131"> <p>Status</p> <p>Online</p> </div> | <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> <div data-bbox="204 1417 557 1509"> <p>EMCDataDomain</p> </div> | <p>Select the adapter for the endpoint that is being created.</p> |
| <p>Host</p> <div data-bbox="204 1559 871 1653"> <p>enter IP address or host name for the cluster</p> </div> | <p>IP or DNS name chosen at the time the storage solution was provisioned which represents the DataDomain access point.</p> <p>Single host examples:</p> <p>mycluster.company.com</p> <p>Or</p> <p>192.168.1.42</p> |

| Setting | Value/Options |
|---|--|
| <p>Share</p> <p><input type="text" value="Enter EMC Data Domain share name"/> EMC</p> <p><i>Data Domain Share must be provided.</i> Note:When a share is deleted from Data Domain, StoragePoint will take about 20 minutes to recognize this change. BLOBs will still attempt to be externalized to this endpoint during this time. If you delete a share, please ensure externalization is turned off first for the associated profile.</p> | <p>Enter the DataDomain share that will be used to hold content specific to this endpoint.</p> |
| <p>Use SSL</p> <p><input type="button" value="No"/> ▼</p> | <p>Select whether or not SSL is required to access the DataDomain storage.</p> |
| <p>User</p> <p><input type="text" value="enter the username to access Data Domain"/></p> <p>Password</p> <p><input type="text" value="enter the password to access Data Domain"/></p> | <p>Enter the connection information for accessing the DataDomain storage solution, including domain if necessary.</p> |
| <p>Retention</p> <p><input checked="" type="radio"/> None</p> <p><input type="radio"/> Date Format</p> <p><input type="text"/> <input type="button" value="Calendar"/> <input type="text" value="12 AM"/> ▼ <input type="text" value="00"/> ▼</p> <p><input type="radio"/> Duration/Interval <input type="text"/> <input type="button" value="Day(s)"/> ▼</p> <p>Note: StoragePoint is not able to determine if your Data Domain device has retention enabled. Please first check the Data Domain device to ensure retention and holds are enabled.</p> | <p>If supplied, the DataDomain adapter will calculate and supply a retention policy when saving content. Possible settings are:</p> <p>None</p> <p>[DateFormat] example: <i>Retention=08/31/2009;</i></p> <p>[Duration][Interval] example: <i>Retention=5D;</i> [Interval] may be days (D), months (M) or years (Y).</p> |
| <p>Advanced Adapter Settings <i>(Hide)</i></p> <p>Buffer Size</p> <p><input type="text" value="8192"/></p> | <p>Click Show to see the buffer size field. The buffer size field limits the amount of resources used to externalize data to the DataDomain endpoint.</p> |

| Setting | Value/Options |
|---|---|
|  | <p>If the endpoint is on a WORM (Write Once, Read Many) device, Unused BLOB Cleanup will ignore this endpoint.</p> |
|  | <p><i>No</i>– Externalized content BLOBs are not placed in folders (default).</p> <p><i>Yes</i>– Externalized content BLOBs are placed in folders.</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>The Test Storage Settings button can be used at this point, or after completing the endpoint configuration, to verify that the endpoint is accessible.</p> |
|  | <p><i>No</i>– Externalized content BLOBs are not compressed (default).</p> <p><i>Yes</i>– Externalized content BLOBs are compressed.</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> |

| Setting | Value/Options |
|--|--|
| | <p><i>AES (256 bit)</i>– 256 bit AES encryption will be applied to externalized BLOBs.</p> |
| <p>Encryption Key Passphrase</p> <div style="border: 1px solid #ccc; padding: 5px;"> <input type="text"/> <input type="button" value="Generate Key"/> <p><i>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.</i></p> </div> | <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 intended to be written to that endpoint will go to the content database.</p> |
| <p>Send Offline Notifications to:</p> <p><input checked="" type="checkbox"/> Use Notification Defaults</p> <p>Additional Contacts</p> <div style="border: 1px solid #ccc; padding: 2px;"> <input type="text" value="admin@company.com"/> </div> <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 DataDomain Adapter

Adapter

EMCDataDomain

Adapter Settings Show Connection String

Host

225.225.25.25

Share

ShareName

Note:When a share is deleted from Data Domain, StoragePoint will take about 20 minutes to recognize this change. BLOBs will still attempt to be externalized to this endpoint during this time. If you delete a share, please ensure externalization is turned off first for the associated profile.

Use SSL

No

User

domain\administrator

Password

••••••

Retention

None

Date Format

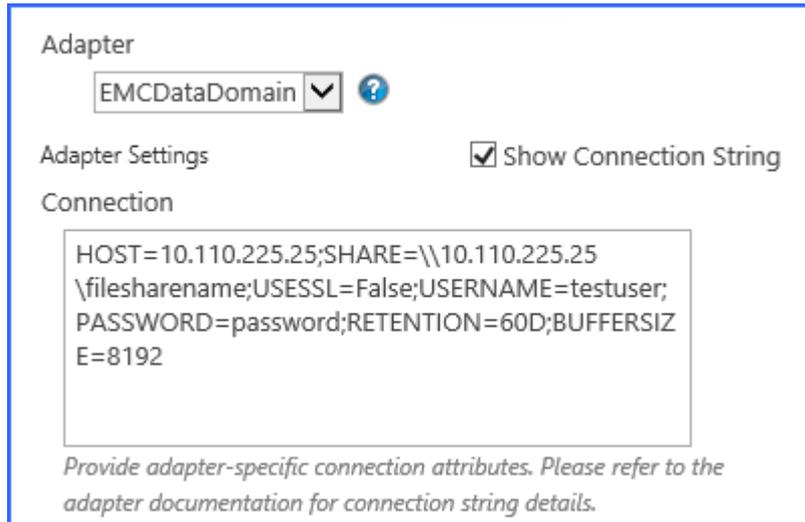
3/27/2015 11 PM 00

Duration/Interval Day(s)

Note: StoragePoint is not able to determine if your Data Domain device has retention enabled. Please first check the Data Domain device to ensure retention and holds are enabled.

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 when editing using the Show Connection String option.



The screenshot shows the 'Adapter' configuration page for 'EMCDataDomain'. Under 'Adapter Settings', the 'Show Connection String' checkbox is checked. The 'Connection' field contains the following text: `HOST=10.110.225.25;SHARE=\\10.110.225.25\filesharename;USESSL=False;USERNAME=testuser;PASSWORD=password;RETENTION=60D;BUFFERSIZE=8192`. Below the field 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 the adapter either directly to the user or within the SharePoint ULS logs. You should refer to your storage platform/provider documentation for resolution to errors logged by the adapter.

Problem: Retention isn't Reflected

The retention period can be configured on the StoragePoint endpoint screen without detecting whether the DataDomain share actually has a retention setting in place. In some cases, the BLOB on the endpoint can be deleted during Unused BLOB Cleanup if the retention isn't also manually enabled on the DataDomain share.

Problem: Synchronization Actions are Not Updated

When a CIFS shared Directory Path is disabled or deleted from Data Domain, it takes some time to be reflected in StoragePoint. StoragePoint can continue externalizing, recalling or migrating content during this period of time. Testing indicated the average time to reflect a deny message to the endpoint is from 10 to 20 minutes. After this time, the correct access denied messages will be shown in the logs.

To prevent lost data, add a second endpoint to the profile, move content of the DataDomain share by bulk migration timer job, then remove the DataDomain endpoint from the profile.

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