

Metalogix® StoragePoint 6.1

Hitachi S3 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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Hitachi S3 Adapter Configuration

This section will provide you details on how to configure a storage endpoint's connection string to utilize the Hitachi S3 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.

Name

Type
 Primary Backup

Status

Adapter

Adapter Settings Show Connection String

Host

Use SSL

User

Password

Advanced Adapter Settings *(Hide)*

Root

Strict SSL

Timeout (in seconds)

Verify Hash

Retry

Retention

Delete Allowed
 Permanent
 Indefinite
 Date Format:

Duration/Interval:

HCP-Specific
 Hold

Hitachi S3 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> <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>

Setting
Value/Options

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

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

HitachiS3 

Select the adapter for the endpoint that is being created.

Host

Fully qualified domain name that represents the tenant namespace.

Use SSL

No

(yes/no) – Determines whether or not the adapter negotiates an SSL connection for all data (and metadata) transfers. Default = No.

User

Password

User login and password used to access the Hitachi S3 system.

Setting
Value/Options

Advanced Adapter Settings *(Hide)*

Root

Folder path to use when storing the SharePoint content under this profile. Please remember that paths and folder names are case sensitive.

Strict SSL

(Yes/No) If *UseSSL* is *Yes*, the *StrictSSL* flag controls whether or not the use of "self-issued" or otherwise suspicious certificates on the system will be tolerated.

Timeout (in seconds)

Number of seconds to wait for a response to any request before considering it an excessively long wait and raising an error condition. Default = 120.

Verify Hash

(Yes/No) If set to *Yes*, adds content integrity checking by comparing a locally computed hash for the file bits against the hash returned from Hitachi during upload operations. Default = No.

Retry

Specifies the number of attempts to retry the network connection to the endpoint before returning a failure result in case of network disruption or connectivity issues. Default = 3.

Setting Value/Options

Retention

Delete Allowed

Permanent

Indefinite

Date Format:



Duration/Interval:

Day(s)

If supplied, the adapter will calculate and supply a retention policy when saving content.

Possible settings:

- Delete Allowed - No special permissions are required to delete content on this endpoint.
- Permanent - This maps to -1 or "Infinite retention, cannot be deleted".
- Indefinite - This maps to -2 or "Initial Unspecified". Content cannot be deleted, but retention can be changed at a later time.
- Date Format - This sets a date for the retention policy. Click the calendar icon to select a date, or type it like this example (mm/dd/yyyy): 08/31/2009
- Duration/Interval - Type a number in the first box, and select an interval from the dropdown. The interval may be days (D), months (M) or years (Y). Example: 5D would equal 5 Days



NOTE: You can NEVER shorten the retention period once it has been established, unless it was initially set to Indefinite.

HCP-Specific

Hold

If Hold is set to true (checked) you can place an object on hold. An object that is on hold cannot be deleted, even by a privileged delete operation. Holding objects is particularly useful when the objects are needed for legal discovery.

Is WORM Device

No

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

Setting Value/Options

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* then 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.

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

Setting
Value/Options

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@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 Hitachi S3

EndPoint Information
Provide basic information about the EndPoint in this section.

The Name identifies the endpoint on the StoragePoint configuration pages. Type can be Primary for general use endpoints and Backup for endpoints used only for Backup and Restore. Status can be Online to allow reads and writes to the endpoint or Offline to allow only reads of content (i.e. no new content allowed).

Storage Settings
Please provide storage device settings in this section.

Name
HS3

Type
 Primary Backup

Status
Online

Adapter
HitachiS3

Adapter Settings Show Connection String

Host
dev.eleven23.access.tryhcpnow.com

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.

Storage Settings
Please provide storage device settings in this section.

Adapter
HitachiS3

Adapter Settings Show Connection String

Connection

```
HOST=dev.eleven23.access.tryhcpnow.com;USESSL=True;USER=dev;PASSWORD=****;ROOT=DVA;STRICSSL=False;TIMEOUT=120;VERIFYHASH=False;RETENTION=3;HOLD=False
```

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.
- NOTE:** Clicking the Test Storage Settings button on a storage profile using the HCP Adapter could result in an error. The profile test performs several operations, including a delete operation. If you are setting a retention parameter on the connection string then you will receive an error letting you know that the delete failed. This should not be considered a failure of the test.

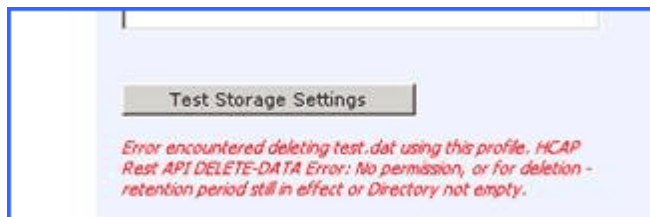
If you choose to externalize content you should test the storage profile settings by clicking the *Test Storage Settings* button. A message under the button will indicate whether or not the test was successful. If the test fails the message will include the error that was the root cause of the failure.

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: Receive an error message when testing a storage profile.

When clicking the *Test Storage Settings* button on a storage profile using the Hitachi S3 adapter you receive an error similar to this:



This error is because a RETENTION value was specified on the storage profile's Connection String and StoragePoint cannot delete the externalized test file. This should be considered a successful test.

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

Wherever possible, StoragePoint surfaces error messages returned by Hitachi S3 either directly to the user or within the SharePoint ULS logs. You should refer to your HCP/HCAP documentation for errors logged by the HCP/HCAP Adapter.

Problem: Newly uploaded content is not being archived as expected.

For event based retention to work, the item has to exist before it can be tagged with retention during the archive process. So if content is uploaded with a change to the metadata that would normally archive the item, it won't be archived. However, any subsequent change to the item will flag it for archiving, and the next successful run of the content queue migrator will archive that content.

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- Sign up for product notifications
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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