Quest

Metalogix® StoragePoint 6.2

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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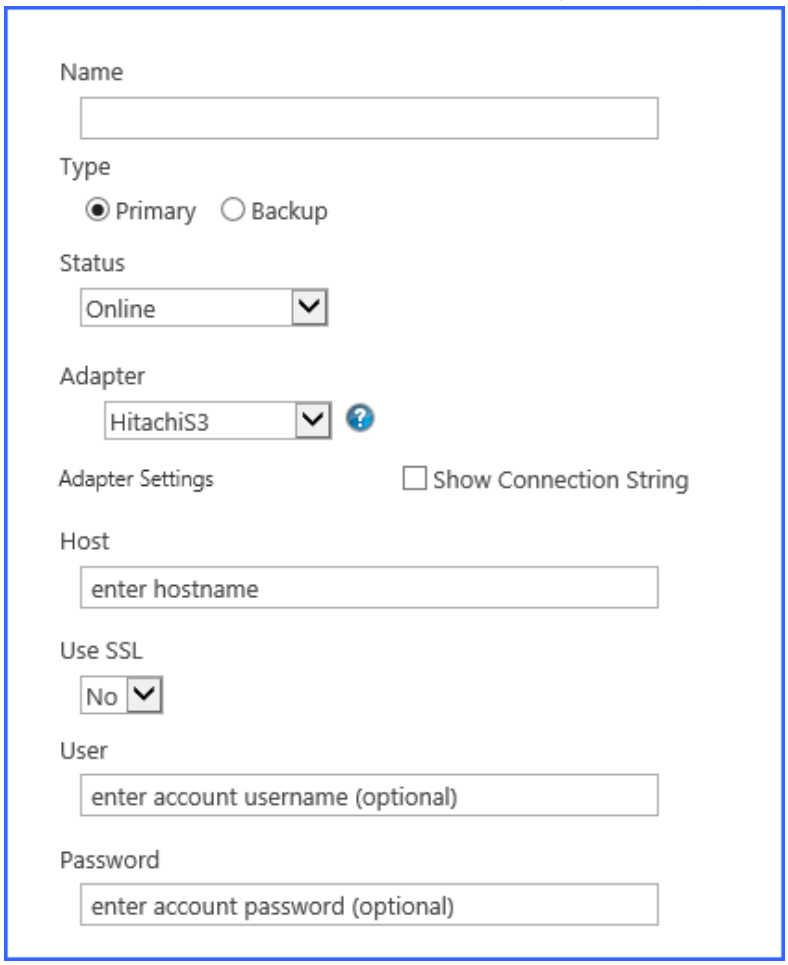
Hitachi S3 Adapter Configuration

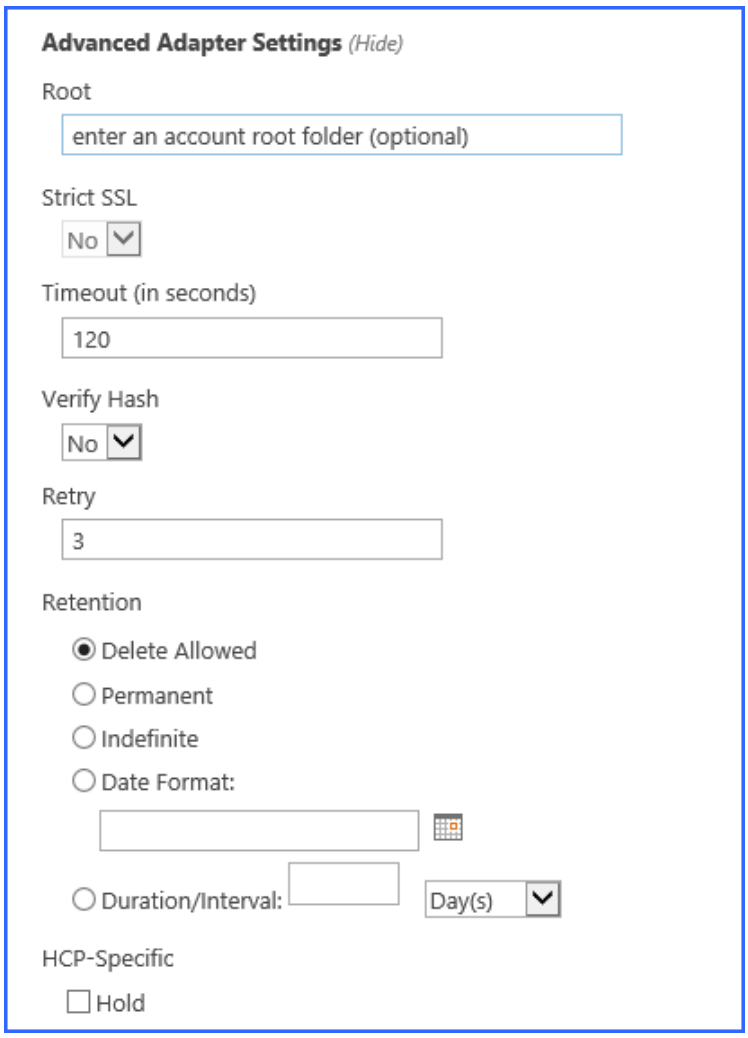
This section will provide you details on how to configure a storage endpoint's connection string to utilize the Hitachi S3 Adapter. Please refer to the StoragePoint Reference Guide for information on managing Storage Endpoints.

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

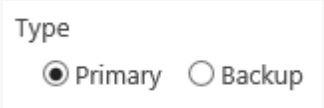
Click *Create New Endpoint* or click the name of an existing storage endpoint that you want to edit.

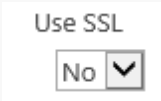
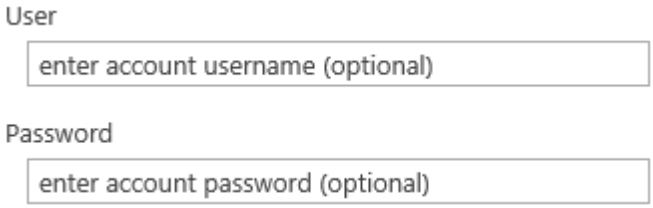
Click the *Show* link next to the Advanced Adapter Settings to see the additional fields.

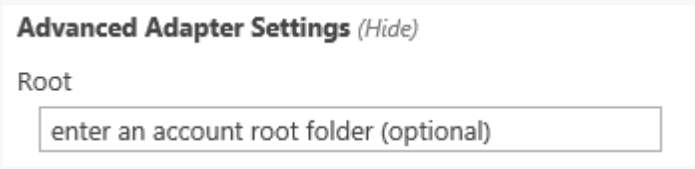
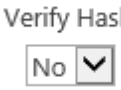


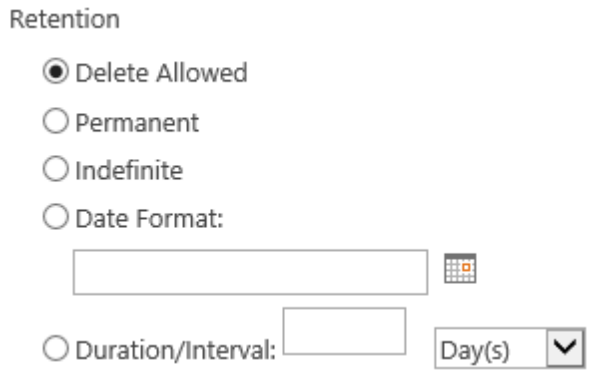
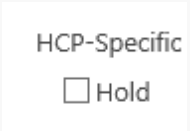


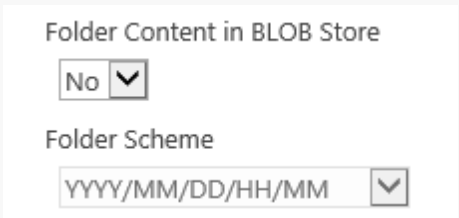
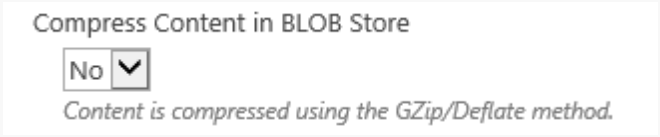
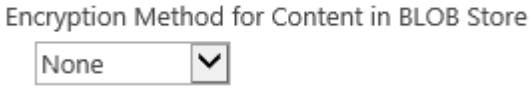
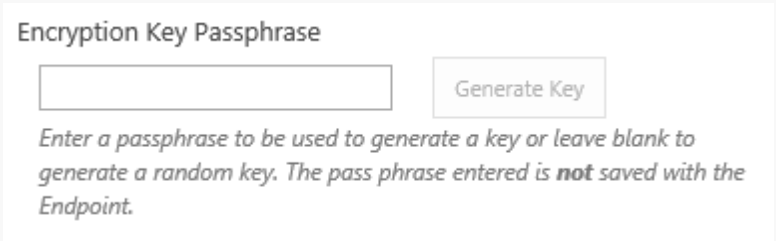
Hitachi S3 Adapter Connection String Parameters

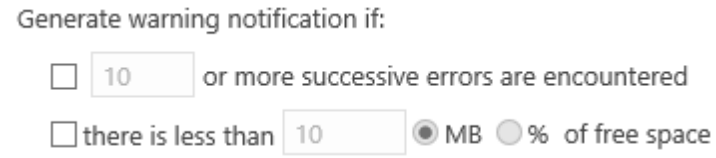
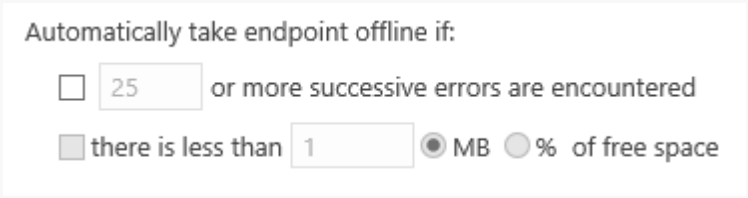
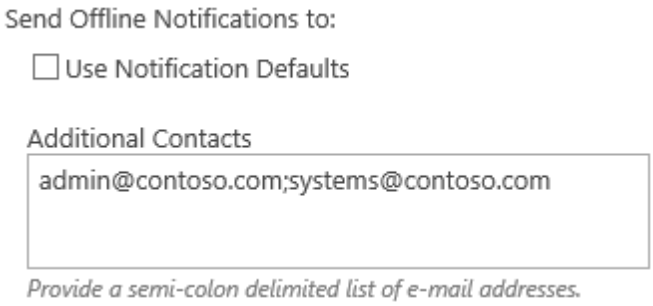
Setting Value/Options
Name Enter the unique name of the Storage or Backup Endpoint.
Type  *Primary* – this endpoint will be available for externalization when creating storage profiles. *Backup* – this endpoint will be in the Backup Services dropdown on the profile page. The selection is locked down when saving.

Setting Value/Options
See Backup Services Settings in the Reference Guide for more information on how Backup Endpoints are used.
Status   *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.
   Select the adapter for the endpoint that is being created.
   Fully qualified domain name that represents the tenant namespace.
   (*yes/no*) – Determines whether or not the adapter negotiates an SSL connection for all data (and metadata) transfers. Default = No.
   User login and password used to access the Hitachi S3 system.

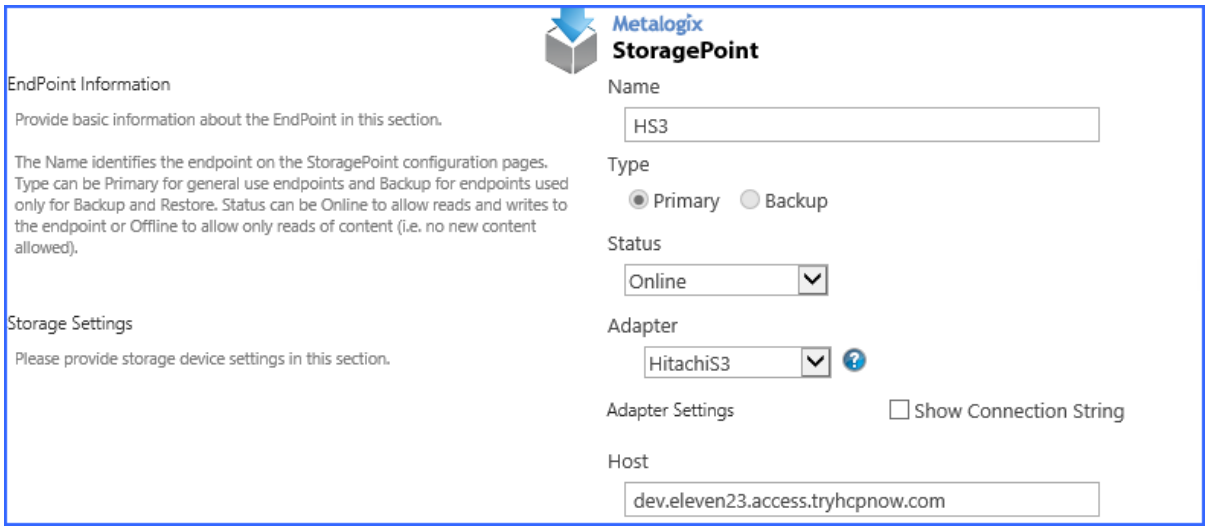
Setting Value/Options
 Folder path to use when storing the SharePoint content under this profile. Please remember that paths and folder names are case sensitive.
 (*Yes/No*) If *UseSSL* is *Yes*, the *StrictSSL* flag controls whether or not the use of "self-issued" or otherwise suspicious certificates on the system will be tolerated.
 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.
 (*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.
 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
 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.
 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.
 If the endpoint is on a WORM (Write Once, Read Many) device, Unused BLOB Cleanup will ignore this endpoint.

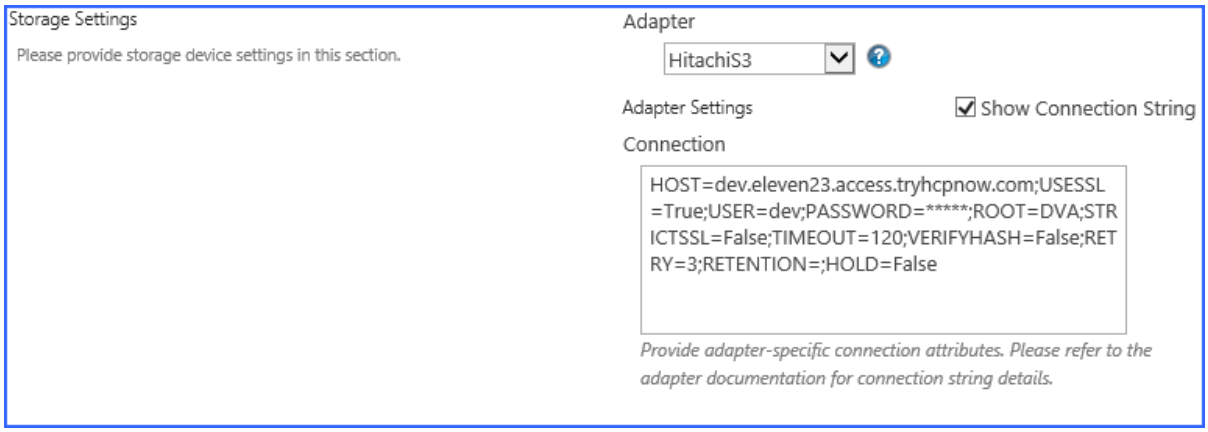
Setting Value/Options
 *No* – Externalized content BLOBs are not placed in folders (default). *Yes* – Externalized content BLOBs are placed in folders. If *Folder Content in BLOB Store* is *Yes* then you can select a date/time folder scheme from the dropdown. YYYY/MM/DD/HH/MM is the default.
 The Test Storage Settings button can be used at this point, or after completing the endpoint configuration, to verify that the endpoint is accessible.
 *No* – Externalized content BLOBs are not compressed (default). *Yes* – Externalized content BLOBs are compressed.
 *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.
 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.
 A warning email can be sent if it encounters errors.
 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.
 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



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.



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.

> 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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