

StoragePoint 6.4

## 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.

Quest<sup>®</sup> StoragePoint

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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.

Туре		
Primary (	Backup	
-	у васкир	
Status		
Online	$\sim$	
Adapter		
HitachiS3	✓ ③	
	✓ ¥	Charles Connection String
	⊻ 🥹	Show Connection String
Adapter Settings	€	Show Connection String
Adapter Settings		Show Connection String
Adapter Settings Host enter hostnar		Show Connection String
Adapter Settings Host enter hostnar Use SSL		Show Connection String
Adapter Settings Host		Show Connection String
Adapter Settings Host enter hostnar Use SSL No		Show Connection String
Adapter Settings Host enter hostnar Use SSL No 🔽 User		

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

Root enter an account root folder (optional)  strict SSL No fimeout (in seconds) 120 /erify Hash No /erify Hash No /erify actry 3  cetention  O Delete Allowed O Permanent O Indefinite O Date Format: Day(s)		
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Timeout (in seconds)          120         /erify Hash         No         No         Image: Second structure         3         Retention         Image: Delete Allowed         Permanent         Indefinite         Date Format:         Image: Duration/Interval:         Day(s)         ACP-Specific	Strict SSL	
120   Verify Hash   No   No   Setury   3   Retention   Image: Delete Allowed   Permanent   Indefinite   Date Format:   Image: Delete Allowed   Duration/Interval:   Day(s)   Image: Delete Allowed	No 🖌	
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No No No No No No No No	V	
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3 Retention  Delete Allowed  Permanent Indefinite Date Format: Duration/Interval: Day(s)		
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<ul> <li>Delete Allowed</li> <li>Permanent</li> <li>Indefinite</li> <li>Date Format:</li> <li>Duration/Interval:</li> </ul> ICP-Specific	3	
<ul> <li>Permanent</li> <li>Indefinite</li> <li>Date Format:</li> <li>Duration/Interval:</li> <li>Day(s) </li> </ul>	Retention	
<ul> <li>Indefinite</li> <li>Date Format:</li> <li>Duration/Interval:</li> <li>Day(s)</li> <li>HCP-Specific</li> </ul>	<ul> <li>Delete Allowed</li> </ul>	
O Date Format:	○ Permanent	
O Duration/Interval: Day(s)	○ Indefinite	
O Duration/Interval: Day(s)	○ Date Format:	
ICP-Specific		
_	O Duration/Interval:	Day(s)
Hold	HCP-Specific	
	Hold	

## Hitachi S3 Adapter Connection String Parameters

	Setting Value/Options	
Name Enter the unique name of the S	Storage or Backup Endpoint.	
Туре		
Туре		
Primary O Backup		
<i>Primary</i> – 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.		

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Setting Value/Options
See Backup Services Settings in the Reference Guide for more information on how Backup Endpoints are used.
Status
Status
Online 🔽
<i>Online</i> – Storage Endpoint should be available to associate to a Storage Profile and accept BLOBs. (default)
<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.
Adapter
HitachiS3 🕑 😯
Select the adapter for the endpoint that is being created.
Host
enter hostname
Fully qualified domain name that represents the tenant namespace.
Use SSL No
( <i>yes/nd</i> ) – Determines whether or not the adapter negotiates an SSL connection for all data (and metadata) transfers. Default = No.
User
enter account username (optional)
Password
enter account password (optional)
User login and password used to access the Hitachi S3 system.

Setting Value/Options
Value/Options
Advanced Adapter Settings (Hide)
Root
enter an account root folder (optional)
Folder path to use when storing the SharePoint content under this profile. Please remember that paths and folder names are case sensitive.
Strict SSL No 🔽 ( <i>Yes/NO</i> ) If <i>UseSSZ</i> is <i>Yes</i> , the <i>StrictSSZ</i> flag controls whether or not the use of "self-issued" or
otherwise suspicious certificates on the system will be tolerated.
Timeout (in seconds)
120
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
( <i>Yes/No</i> ) If set to <i>Yes</i> , 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
3
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		
O Date Format:		
O 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		
<b>i</b> 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.		

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Setting Value/Options	
•	
Folder Content in BLOB Store	
Folder Scheme	
YYYY/MM/DD/HH/MM	
<i>No</i> –Externalized content BLOBs are not placed in folders (default).	
<i>Yes</i> – Externalized content BLOBs are placed in folders.	
If <i>Folder Content in BLOB Store</i> is <i>Yes</i> 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).	
<i>Yes</i> – Externalized content BLOBs are compressed.	
Encryption Method for Content in BLOB Store	
None	
<i>None</i> – Encryption will not be applied to externalized BLOBs (default).	
AES (128 bit) – 128 bit AES encryption will be applied to externalized BLOBs.	
<i>AES (256 bit)</i> – 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 <b>not</b> 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 <i>Generate Key</i> button. The encryption key passphrase will be hidden.
Generate warning notification if:
10 or more successive errors are encountered
there is less than 10 If MB MB MB there 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

StoragePoint by Quest		
EndPoint Information	Name	
Provide basic information about the EndPoint in this section.	HS3	
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).	Type Primary Backup Status Online	
Storage Settings	Adapter	
Please provide storage device settings in this section.	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
	HOST=dev.eleven23.access.tryhcpnow.com;USESSL =True;USER=dev;PASSWORD=*****;ROOT=DVA;STR ICTSSL=False;TIMEOUT=120;VERIFYHASH=False;RET RY=3;RETENTION=;HOLD=False
	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 StoragePoint. Otherwise, encrypted content could become irretrievable in the event of a database failure.
- **i** 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 StoragePoint Required Privileges in the 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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- Chat with support engineers online
- View services to assist you with your product