

Metalogix[®] StoragePoint 6.3

IBM Tivoli 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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Contents

Tivoli Adapter Configuration	4
Tivoli Connection String Parameters	4
Example Storage Endpoint Using Tivoli	7
Installing the Metalogix Tivoli Client	
Uninstalling the Metalogix Tivoli Client	13
Appendix: Troubleshooting	15
Problem: Receiving errors on storage or retrieval of externalized content.	15
Problem: Content won't migrate betwen nodes.	15
Tips for Configuring Tivoli	
Location of Content on Tivoli	16
Tivoli Management Class	16
About Us	18
Contacting Quest	18
Technical Support Resources	18

Tivoli Adapter Configuration

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

Adapter IBM Tivoli 🗸 🕼					
Adapter Settings	Show Connection String				
Client Base URL					
Enter URL to connect to the Tivoli Client Web Service					
Client Node					
enter Client Node Name					
Client Node Password					
Enter Client Node Password					

Tivoli Connection String Parameters

4

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 IBM Tivoli
Select the adapter for the endpoint that is being created.
Client Base URL Enter URL to connect to the Tivoli Client Web Service
IP or DNS name chosen at the time the storage solution was provisioned which represents the Tivoli client access point. The Metalogix Tivoli Client uses port 8190. This port needs to be opened (inbound rule on the client machine) to communicate with SharePoint.
Client Node
enter Client Node Name
Client Node Password
Enter Client Node Password
Enter the connection information for accessing the Tivoli node.
Is WORM Device
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

Yes 🗸

Folder Scheme

YYYY/MM/DD/HH/MM V

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).

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

Enter a passphrase to be used to generate Key blank to generate a random key. The pass phrase entered is **not** saved with the Endpoint.

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 *Generate Key* button. The encryption key passphrase will be hidden.

Setting Value/Options
Generate warning notification if:
There is less than 10 \odot MB \odot % 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@company.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 Tivoli

Adapter IBM Tivoli 🗸 🚱				
Adapter Settings	Show Connection String			
Client Base URL				
http://225.225.25.25:8190/TivoliREST				
Client Node				
Node1	×			
Client Node Password				
••••				

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.

Adapter IBM Tivoli 🗸 🕜					
Adapter Settings 🛛 🗸 Show Conne	ction String				
Connection					
URI=http://225.225.25.25:8190/TivoliREST;CLIE NTNODE=Node1;PASSWORD=****					
	\sim				
Provide adapter-specific connection attributes. Please refer to the adapter documentation for connection string details.					

- 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.

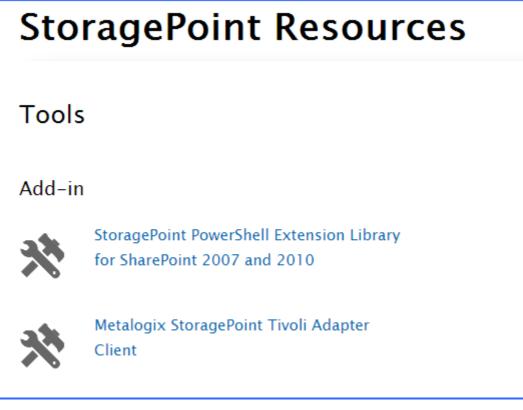
i NOTE: When testing access to an endpoint from within Central Administration, the Identity of the Application Pool hosting the Central Administration Site is the one that is being used for the test. If there are different Identities used for other Web Applications in the Farm then those identities will 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.

Installing the Metalogix Tivoli Client

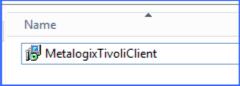
Installing the Metalogix Tivoli Client is critical for communication with the Tivoli node.

NOTE: There is a minimum version requirement of .NET 4.0 to install the Metalogix Tivoli Client.

- NOTE: If this is an upgrade, the old client must be uninstalled before continuing with the install.
- 1. Download the Metalogix StoragePoint Tivoli Adapter Client from the Metalogix <u>website</u>, and copy it to the Tivoli Client machine.



2. On the Tivoli client, unzip the file, and double click the executable.



3. When the App Setup window opens, click Next.

🙀 Metalogix Tivo	li Client Setup 📃 🖂 🔀
Metalogix TIVOLI CLIENT	Welcome to the Metalogix Tivoli Client Setup Wizard
	The Setup Wizard will install Metalogix Tivoli Client on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	Back Next Cancel

4. Click the checkbox, and click Next.

👘 Metalogix Tivoli Client	: Setup			
End-User License Ag	reement			
Please read the followi	ng license agreeme	ent carefully		
	METALOGIX SOFT DOWNLOAD LIC			-
METALOGIX INTERNAT THE METALOGIX SO (COLLECTIVELY, "SOFT LICENSE AGREEMENT DOWNLOADING, INST YOU ARE CONSENTING THIS AGREEMENT, CORSENTING AGREEMENT, CLICK TH INSTALL, COPY OR USI ANY PART OF THE	FTWARE APPLICA WARE") PURSUA ("AGREEMENT"). ALLING, COPYING G TO BE BOUND F YOU DO NOT F YOU DO NOT AE " <u>DO NOT ACC</u> THE SOFTWARE.	TIONS AND NT TO THE BY CLICKING OR OTHERW BY ALL THE AGREE TO A <u>EPT</u> " BUTTON AND YOU WII METALOGIX'	Related Docum Terms of This D 5 on the " <u>accept</u> /ise using the 9 Terms and cont 11 of the term 1 and do not d	MENTATION POWNLOAD P BUTTON, SOFTWARE, DITIONS OF IS OF THIS OWNLOAD, LICENSE TO
	Print	Back	Next	Cancel

5. Click Next, or browse to a different location to install the service.

🙀 Metalogix Tivoli C	lient Setup				
Custom Setup Select the way yo	ou want features to be install	ed.			
Click the icons in t	he tree below to change the	way	features w	vill be installed.	
	letalogix Tivoli Client			5T service resp all TSM request	
			This featu your hard	ure requires 11 1 drive.	96KB on
Location:	C:\Program Files (x86)\Meta	logix'	Metalogix1	TivoliClient\	Browse
Reset	Disk Usage		Back	Next	Cancel

6. Click Install.

🙀 Metalogix Tivoli Client Setup				_ 🗆 X
Ready to install Metalogix Tivo	li Client			
Click Install to begin the installation. installation settings. Click Cancel to e	Click Back to re exit the wizard.	eview or change an	y of your	
	Back	Install		Cancel

7. The window will refresh to show the progress.

17	Metalogix	Tivoli Client Setup				
	Installing) Metalogix Tivoli I	Client			
	Please wait	while the Setup Wizar	d installs M	letalogix Tivol	i Client.	
	Status:	Starting services				
				Back	Next	Cancel

8. Click Finish.

i	Metalogix Tivoli Client Setup 📃 🗖 🗙
Metalogix TIVOLI CLIENT	Completed the Metalogix Tivoli Client Setup Wizard
	Click the Finish button to exit the Setup Wizard.
	Back Finish Cancel

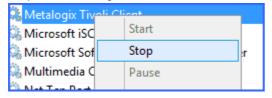
Confirmation

Open the services admin tool and make sure Metalogix Tivoli Client is running.

•	0		0	
Micocal Session Ivianager	C	.ore windo	Kunning	Automatic
🔐 Metalogix Tivoli Client	H	ITTP RESTF	Running	Automatic
The Microsoft is CSU pitiator Soprice	N	Appages In		Manual

Uninstalling the Metalogix Tivoli Client

1. Stop the Metalogix Tivoli Client in Services.



2. Double click the executable.

Name	*
🛃 InstallerRESTAP	Р

3. When the App Setup window opens, click Next.

🙀 Metalogix Tivo	li Client Setup 📃 🗌 🗙
Metalogix TIVOLI CLIENT	Welcome to the Metalogix Tivoli Client Setup Wizard
	The Setup Wizard will install Metalogix Tivoli Client on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	Back Next Cancel

4. On the Change, repair or remove window, click Remove.

閿	Metalogix Tivoli Client Setup 📃 🗖 🗙
	nge, repair, or remove installation
Sel	ect the operation you wish to perform.
	Change
	Lets you change the way features are installed.
	Repair
	Repairs errors in the most recent installation by fixing missing and corrupt files, shortcuts, and registry entries.
	Remove
	Removes Metalogix Tivoli Client from your computer.
	Back Next Cancel

5. Click Remove.

뤙	Metalogix Tivoli Client Setup 📃 🗖 🗙
Ready to r	remove Metalogix Tivoli Client
Click Remo or change	ove to remove Metalogix Tivoli Client from your computer. Click Back to review any of your installation settings. Click Cancel to exit the wizard.
	Back Remove Cancel

6. Click Finish.

i	Metalogix Tivoli Client Setup 📃 🗖 🗙
Metalogix TIVOLI CLIENT	Completed the Metalogix Tivoli Client Setup Wizard
	Click the Finish button to exit the Setup Wizard.
	Back Finish Cancel

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.

Check to see that the TSM instance does not have Archive Data Retention Protection enabled. This will prevent the deletion of data on Tivoli, until the expiration date is reached. For more information please see this <u>link</u>.

Problem: Content won't migrate betwen nodes.

If multiple Nodes are configured on the Tivoli Server Manager, Administrator privileges need to be shared among nodes.

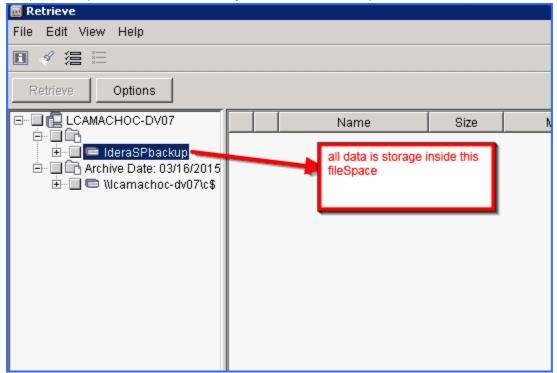
For more information and instructions, please see the following link.

Tips for Configuring Tivoli

If the Tivoli license has expired, there may be errors trying to recall or migrate data from the Tivoli endpoint. Renew the license to correct these errors.

Location of Content on Tivoli

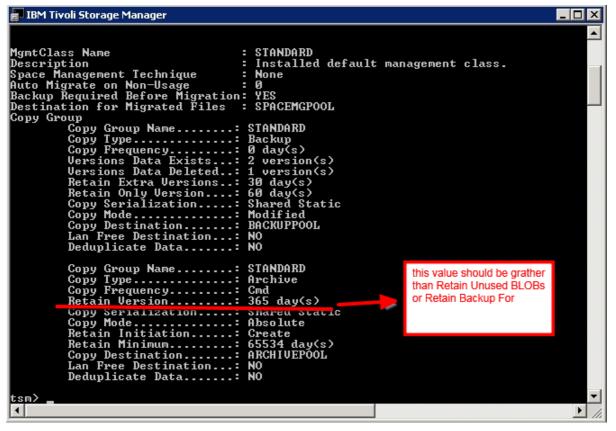
Within the Tivoli user interface, all content that is externalized by StoragePoint using the Tivoli endpoint adapter will be in a directory called IderaSPbackup.



Tivoli Management Class

The Retain Version parameter should be greater than the Unused BLOB Retention period set for the profile using the endpoint. See the section on Unused BLOB Retention in the StoragePoint

Reference Guide.



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2

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