

Metalogix[®] StoragePoint 6.2

Atmos 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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Atmos Adapter Configuration

This section will provide you details on how to configure a storage endpoint's connection string to utilize the Atmos 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
Atmos 🗸 😯
Adapter Settings Show Connection String
UID
enter an account UID
Кеу
enter an account Key
Advanced Adapter Settings (Hide)
Base URI
accesspoint.emccis.com
Root
enter an account Root value (optional)
Use SSL
No 🗸
Port
80
Verify Hash
No V

Atmos Adapter Connection String Parameters

Setting Value/Options				
Name				
Enter the unique name of the Storage or Backup Endpoint.				
Туре				
C Primary C 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.				
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)				
<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 Atmos v 3 Select the adapter for the endpoint that is being created.				
The username to use when connecting to the server. This is equivalent to the Token ID provided with your Atmos online account.				

Setting Value/Options
Key The base64 encoded shared secret to use when signing requests to the server.
Advanced Adapter Settings (Hide) Base URI accesspoint.emccis.com IP address or host name that represents the Atmos instance or specific node to be used. Default = accesspoint.emccis.com.
Root The starting folder/container within your Atmos namespace under which all folders and files will be created.
Use SSL No V (<i>yes/nd</i>) Determines whether or not the adapter negotiates an SSL connection for all data (and metadata) transfers. See Appendix A for details on adding a trust relationship. Default = No.
Port 80 The port on the server to communicate with. Default = 80 (443 if UseSSL is Yes).
Verify Hash No V (<i>yes/nd</i>) Includes a check-sum operation after each blob transfer. Allows the adapter to detect and log data integrity errors immediately. Default = No.
Is WORM Device NOTION 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 \sim

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 Vesthen 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. For some adapters, testing the connection will create the folder if it doesn't already exist.

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 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: ✓ 10 or more successive errors are encountered ✓ there is less than 10 O MB O % 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	
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 e to include the list of Default Notification Contacts specified on the General	

Example Storage Endpoint using Atmos Adapter

C L L L			
Storage Settings	Adapter		
Provide general storage settings in this section	Atmos 💽 😨		
	Adapter Settings	Show Connection String	
	UID		
	8cf3acc45fa44c4a91863bcf529eb382BLUETSE1897E		
	Кеу		
	dnF1/X8ykw1aumcymjtWUWjwUyk		
	Advanced Adapter Settings (Hide) Base URI		
	accesspoint.emccis.com]	
	Root		
	Use SSL		
	Port 80		
	Verify Hash		

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.

Storage Settings Provide general storage settings in this section	Adapter	
	Adapter Settings	🗹 Show Connection String
	Connection UID=8cf3acc45fa44c4a91863bcf529eb382BLUET SE1897Bf36E5F70;KEY=dnF1/X8ykw1aumcymjt WUWjwUyk;BASEURI=accesspoint.emccis.com; PORT=80;ROOT=;USESSL=False;VERIFYHASH= False; Provide adapter-specific connection attributes. Please refe 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.

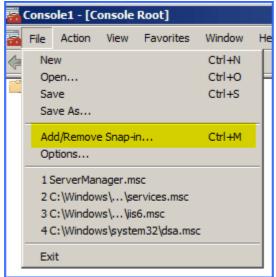
If you choose to externalize content you should test the storage profile settings by clicking the *Test Storage Settings* button. A message under the button will indicate whether or not the test was successful. If the test fails the message will include the error that was the root cause of the failure.

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: Using SSL with EMC Atmos

In order for the StoragePoint EMC Atmos adapter to use SSL to communicate with Atmos, the Atmos instance's certificate must be added to the SharePoint certificate store. The following steps describe how to do this:

- 1. Click Start->Run. Enter 'mmc.exe' and press Enter.
- 2. On the File menu, click Add/Remove Snap-In.



3. Click Certificates on the left, then click Add. A new window opens; select Computer Account and click Next.

Add or Remove Snap-ins				
You can select snap-ins for the extensible snap-ins, you can Available snap-ins:		nsions are enable	ir computer and configure the selected : :d. Selected snap-ins:	set of snap-ins. For
Snap-in	Vendor		Console Root	Edit Extensions
🛁 ActiveX Control	Microsoft Cor			
Authorization Manager	Microsoft Cor		Certificates snap-in	
Certificates	Microsoft Cor			
Component Services	Microsoft Cor		This snap-in will always mana	ge certificates for:
Computer Managem	Microsoft Cor			
Device Manager	Microsoft Cor		C My user account	
🔤 Disk Management	Microsoft and	Add >	O Service account	
Event Viewer	Microsoft Cor		Computer account	
Folder	Microsoft Cor			

4. Select Local Computer and click Finish.

dd or Remove Snap-ins	
Select Computer	×
Select the computer you want this snap-in to manage.	
This snap-in will always manage:	
 Local computer: (the computer this console is running on) 	
C Another computer: Browse	
Allow the selected computer to be observed when lawnshing from the command line. This	
Allow the selected computer to be changed when launching from the command line. This only applies if you save the console.	
K Sack Finish Cance	

5. Click OK.

6. Expand Certificates (Local Computer)->Trusted Root Certification Authorities->Certificates. Find the root certificate. For AT&T this is the Verisign "G5" certificate:

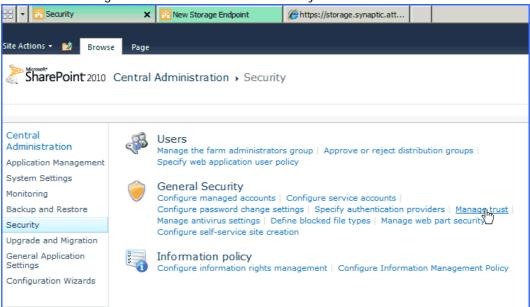
🧱 Console1 - [Console Root\Certificates (Local Computer)\Trusted Root Certification Authorities\Certificates]				
🚰 File Action View Favorites Window Help				
Console Root Certificates (Local Computer) Certificates	Issued To Issued	Issued By Class 3 Public Primary Certificatic Class 3 Public Primary Certificatic Copyright (c) 1997 Microsoft Cor Entrust.net Secure Server Certifi Equifax Secure Certificate Autho Go Daddy Class 2 Certificate Autho Go Daddy Class 2 Certificate Autho Microsoft Authenticode(tm) Root Microsoft Root Authority Microsoft Root Authority Microsoft Root Certificate Autho NO LIABILITY ACCEPTED, (c)97 Thawte Premium Server CA Thawte Premium Server CA		
	Thawte Timestamping CA Werisign Class 3 Public Primary Certification Authority - G5 WMSvc-WIN-E30Z2TMI307	Thawte Timestamping CA VeriSign Class 3 Public Primary C WMSvc-WIN-E3DZ2TMI307		

7. Open the certificate. On the Details tab, click Copy To File...

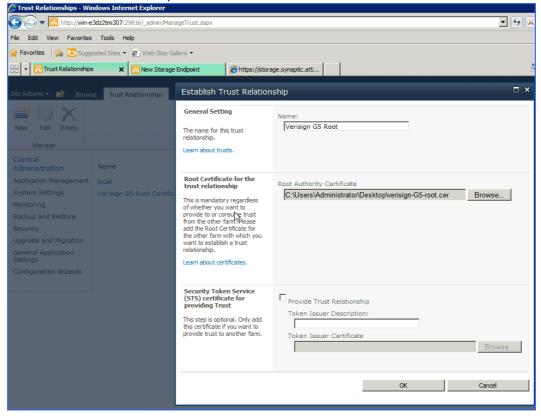
Certificate	×			
General Details Certification Path	1			
Show: <a>All>				
Field	Value 🔺			
Version	V3			
Serial number	18 da d1 9e 26 7d e8 bb 4a 21			
Signature algorithm	sha 1RSA			
Signature hash algorithm	sha1			
Issuer	VeriSign Class 3 Public Primary			
Valid from	Tuesday, November 07, 2006			
Valid to	Wednesday, July 16, 2036 7:			
Subject	VeriSign Class 3 Public Primary 💌			
Edit Properties Copy to File				
	ОК			

8. The Certificate Export Wizard opens. Click Next. The default "DER" format is fine. Save to the desktop as something like verisign-G5-root.cer. Click Next.

- 9. Click Finish to complete the export. Click OK on the message. Click OK to close the certificate window.
- 10. Open the SharePoint Central Administration. Click Security from the navigation on the left. Select Manage Trust from the General Security section.



- 11. You will probably only see one certificate here, "local". Click "New."
- 12. Give it a name like Verisign G5 Root. Pick the file you exported to your desktop. Leave "Provide Trust Relationship" blank.



13. Click OK.

The Use SSL option can now be configured and used with the StoragePoint EMC Atmos adapter.

Appendix: Atmos adapter support for TLS 1.1

The following steps need to be performed on all servers that have StoragePoint installed.

1) Install MS fix for TLS for .NET 3.5:

https://support.microsoft.com/en-us/help/3154519/support-for-tls-system-defaultversions-included-in-the-net-framework

Support for TLS System Default Versions included in the .NET Framework 3.5 on Windows Server 2012

Applies to: Windows 8, Windows Server 2012 Datacenter, Windows Server 2012 Datacenter, More

The .NET framework version 3.5 and earlier versions did not provide support for applications to use Transport Layer Security (TLS) System Default Versions as a cryptographic protocol. This update enables the use of TLS v1.2 in the .NET Framework 3.5.

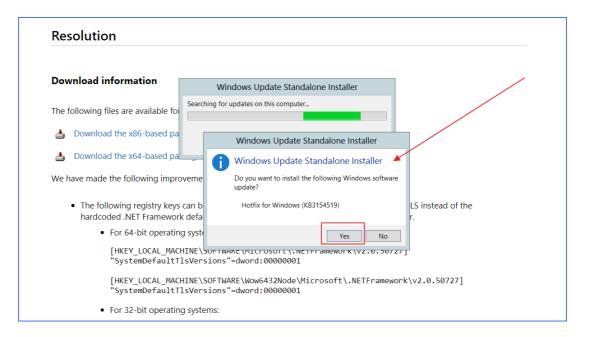
Resolution	

Download information

The following files are available for download from the Microsoft Download Center:

- Download the x86-based package now.
- bownload the x64-based package now.

We have made the following improvements in this area:



•	Download and Install Updates	X
	Installation complete	
		Close

2) Provide defaults for TLS configuration (in this case TLS 1.1). Add the following registry values (if missing):

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\.NETFramework\v2.0.50727] "SystemDefaultTIsVersions"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\.NETFramework\v2.0.507 27]

"SystemDefaultTIsVersions"=dword:00000001

3) Verify if TLS 1.1 client is enabled:

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANN EL\Protocols\TLS 1.1\Client] "Enabled"=dword:00000001 "DisabledByDefault"=dword:00000000

- 4) Complete an <u>IIS</u> reset and SP Timer Service Reset.
- 5) Test on Atmos endpoint web page.
- 6) Run the BLOB Health Analyzer job for requested profile(s).

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- Chat with support engineers online
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