

Atempo Setup Guide

Application Note

January 2025

ANNOUNCEMENT

Copyright

© Copyright 2025 QSAN Technology, Inc. All rights reserved. No part of this document may be reproduced or transmitted without written permission from QSAN Technology, Inc.

QSAN believes the information in this publication is accurate as of its publication date. The information is subject to change without notice.

Trademarks

- QSAN, the QSAN logo, QSAN.com, XCubeFAS, XCubeSAN, XCubeNXT, XCubeNAS, XCubeDAS, XEVO, SANOS, and QSM are trademarks or registered trademarks of QSAN Technology, Inc.
- Microsoft, Windows, Windows Server, and Hyper-V are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Linux is a trademark of Linus Torvalds in the United States and/or other countries.
- UNIX is a registered trademark of The Open Group in the United States and other countries.
- Mac and OS X are trademarks of Apple Inc., registered in the U.S. and other countries.
- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.
- VMware, ESXi, and vSphere are registered trademarks or trademarks of VMware, Inc. in the United States and/or other countries.
- Citrix and Xen are registered trademarks or trademarks of Citrix Systems, Inc. in the United States and/or other countries.
- Other trademarks and trade names used in this document to refer to either the entities claiming the marks and names or their products are the property of their respective owners.



TABLE OF CONTENTS

Anno	ouncen	nenti			
Noti	ces	iv			
Prefa	ace				
	Techr	nical Supportv			
	Inform	nation, Tip, and Cautionv			
1.	Introd	Introduction to Atempo			
	1.1.	Atempo Miria for Archive 1			
2.	Confi	guration Settings 2			
	2.1.	Environment and Topology 2			
	2.2.	Configure Backup Steps 3			
3.	Concl	usion 12			
4.	Apper	ndix			
	4.1.	Apply To			
	4.2.	Reference			



FIGURES

Figure 1-1	Atempo Miria for Archive 1
Figure 2-1	Demonstration Topology 3
Figure 2-2	Create CIFS share 4
Figure 2-3	Configure Data Mover 4
Figure 2-4	Configure NAS Step 1 5
Figure 2-5	Configure NAS Step 2 5
Figure 2-6	Configure NAS Step 3 6
Figure 2-7	Configure NAS Step 4 6
Figure 2-8	Configure Storage Manager7
Figure 2-9	Configure Container 7
Figure 2-10	Configure Policies
Figure 2-11	Create Repository
Figure 2-12	Create Archive Task Step 19
Figure 2-13	Create Archive Task Step 2 10
Figure 2-14	Create Archive Task Step 3 10
Figure 2-15	Check Backup Process 11



NOTICES

Information contained in this document has been reviewed for accuracy. But it could include typographical errors or technical inaccuracies. Changes are made to the document periodically. These changes will be incorporated in new editions of the publication. QSAN may make improvements or changes in the products. All features, functionality, and product specifications are subject to change without prior notice or obligation. All statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.



PREFACE

Technical Support

Do you have any questions or need help trouble-shooting a problem? Please contact QSAN Support, we will reply to you as soon as possible.

- Via the Web: <u>https://www.gsan.com/technical_support</u>
- Via Telephone: +886-2-77206355
- (Service hours: 09:30 18:00, Monday Friday, UTC+8)
- Via Skype Chat, Skype ID: qsan.support
- (Service hours: 09:30 02:00, Monday Friday, UTC+8, Summer time: 09:30 01:00)
- Via Email: <u>support@qsan.com</u>

Information, Tip, and Caution

This document uses the following symbols to draw attention to important safety and operational information.



INFORMATION

INFORMATION provides useful knowledge, definition, or terminology for reference.



TIP

TIP provides helpful suggestions for performing tasks more effectively.







CAUTION

CAUTION indicates that failure to take a specified action could result in damage to the system.



1. INTRODUCTION TO ATEMPO

Atempo is a prominent independent software vendor based in Europe, specializing in data protection and management solutions. With over 25 years of experience, Atempo serves a diverse clientele, including companies in sectors such as media, healthcare, and government, managing complex environments and large volumes of unstructured data.

1.1. Atempo Miria for Archive

Miria is one of Atempo's product suite. It is a comprehensive data management platform designed to handle large amounts of unstructured data. It also provides a set of customized solutions for various data management needs.



Figure 1-1 Atempo Miria for Archive

Miria for Archiving is a specialized software solution designed to manage the archiving of digital information across various storage environments. This component enables organizations to archive massive datasets securely and efficiently. It integrates seamlessly into existing workflows, supports open and scalable formats, and eliminates storage vendor lock-in. Users can perform archiving tasks manually through a drag-and-drop interface or set up automated processes based on predefined policies. The solution also provides advanced metadata search capabilities, facilitating easy retrieval of archived data.



2. CONFIGURATION SETTINGS

Atempo Miria is a powerful and flexible archiving solution that provides an effective way to protect data while optimizing storage utilization. When combined with QSAN's powerful QSM 4 CIFS sharing capabilities, organizations can achieve seamless integration for efficient data backup and archiving.

In this chapter, we will take a closer look at the backup solution that combines Atempo software with QSAN storage. We will guide you to configure QSAN QSM4 CIFS share and integrate it with Atempo Archive for effective data backup. It highlights best practices to ensure optimal performance and reliability for your archiving needs.

2.1. Environment and Topology

Demonstration Environment

Server

CPU: 4 cores Memory: 8 GB OS: Windows 11

Storage

2

 Model: XN8124D Memory: 16 GB per controller IP: 192.168.195.1

Demonstration Topology

The connections are very simple, here are the connections in brief and any topology will work if the logical connection is pingable.







Figure 2-1 Demonstration Topology

2.2. Configure Backup Steps

In this use case scenario, we will explore a simple procedure to perform a backup using Atempo Miria for archive and store the backup data on an unified storage solution. This configuration ensures the security and accessibility of critical data, providing a reliable solution for data protection and disaster recovery needs.

1. Create a pool, file volume, and share named "Atempo," then add it to the share host group with CIFS protocol.



Atempo Setup Guide

App	lication	Note
-----	----------	------

Block Host	>	Name ShareHostGroup_001 🌣	
🗔 Share Host	~	The Host	>
+	1 items	δ ^α Service	>
ShareHostGroup_001		E Share	~
			🖌 Edit Share
		Share Name	
		Atempo share01	
		share02	
		share03	
			< 1 >
		Figure 2-2 Create CIFS share	

2. Login to Atempo Miria and then go to **Infrastructure** -> **Data Movers**, configure it as a Window host.

mina	3
MAIN	♠ > Infrastructure > Data Movers Data Movers
	Data Mover (1)
Archiving Tasks	DESKTOP-P3N0742
CONFIGURATION Repositories Policies Infrastructure Applications Security Activity Jobs	

Figure 2-3 Configure Data Mover

3. Click the **NAS** icon.



				Atempo Setup Guide Application Note
Storage managers	Data Movers	NAS	Shared file system	My file system
				Jan ()

Figure 2-4 Configure NAS Step 1

4. Select NAS type as **Other**, protocol as **Windows (CIFS)**, and data movers as **Single Data Mover**.

Configuration	Options
Select type	
NAS TYPE Choose the type of your NAS	
Select Data Movers	
PROTOCOL Select the process relating to the Data Mover that is used with the NAS Windows (CIFS) O UNIX/MacOS (NFS)	
DATA MOVERS Choose Pool / Data Mover to use with this platform. To achieve better performance use po O Pool Single Data Mover Select the agent that will be used as Data Mover* DESKTOP-P3N0742 (Windows)	ol of agents and split the different workflows with parallelism rules.

Figure 2-5 Configure NAS Step 2

5. Type "host=*NAS IP*." in the **Stream option**.



Configuration
Stream option
The text field allows you to enter specific stream options depending on the platform type.
host=192.168.195.1

Figure 2-6 Configure NAS Step 3

6. Enter a NAS name, Windows account includes Session user and Password, then click the Create button.

Configuration
Summary of the NAS
QSAN of type Other
DESKTOP-P3N0742 (Windows)
Name your NAS
- 1/16 c / 1/2
QSAN
Windows account
Session user
admin
Password
C Confirm password

Figure 2-7 Configure NAS Step 4

7. Configure storage manager and select the NAS as storage platform.



Storage manager information					
🦳 Storage manager name					
Atempotest					
Online					
Configuration					
comgaration					
Storage platform*					
QSAN (Windows)					
UTF8 support					
Volume management					
volume management					
VOLUME N	IANAGEMENT				
Use volume l	evel to trigger retention jobs				

Figure 2-8 Configure Storage Manager

8. Configure container in the Storage manager, and select the NAS path.

Storage manager
Atempotest
Properties
Storage container name* QSAN
Deduplication domain*
Archiving run lock*
[Without]
1 O
Configuration
Master storage platform: BBB (QSAN (Windows)) Directory* cifs@\\csnas\Atempo
Digest on storage* None
Format* PAX
🗹 Metadata





9. Configure polices, and add NAS as target.

Edit (testpolicy)						
Configuration						
Name*						
testpolicy						
Global retention*						
test2						
Deduplication reference						
Targets						
Reduce IO impact on source	platform					
Storages will be used serially. Reo	Storages will be used serially. Reorder the list in order of priority					
	TARGET			RETENTION		
8	QSAN			Same as global		
+ New target						

Figure 2-10 Configure Policies

10. Click the **+NEW REPOSITORY** button to add a repository named Repotest.

miria	≡t						() (R
MAIN	♠ > Repositories Repositories						
Easy Move #* Migration							
 Backup Archiving 							
Tasks							
Repositories			New repository				
Infrastructure			Repository name* Repotest				
Applications Security			Owner* root				
activity			Data Mover mode* Archiving (default)				
🖨 Logs			QUOTA MANAGEMENT				
				CANCEL			

Figure 2-11 Create Repository

11. Create an archive task, enter a **Task name** and select **Source** as NAS and select **Target** as Repository, then select the **Policy**.



Source &	target	Objects to archive						
т	ask name							
	Task name* Archivetest							
Si	ource							
	Select the source platform containing the folders and files Source* QSAN (Windows)	you want to archive.						
Ti	Target							
	Select a repository where folders and files will be archived							
	Repotest							
	Full path auto-generated Archive repository							
P	olicy							
	Policy* testpolicy							
	< BACK							

Figure 2-12 Create Archive Task Step 1

12. Next, select the share named "Atempo" as the archive object.

		1.1.
Source & target	Objects to archive	Scheduling
Select objects to archive		
 csnas (DESKTOP-P3N0742) Atempo share01 share02 		
Archiving list		
PATH		
cifs@\\csnas\Atempo		
TOTAL SOURCE PATHS: 1		
Inclusion / Exclusion Objects		
Enable inclusion/exclusion of certain fi	les/directories into the archiving task.	

Figure 2-13 Create Archive Task Step 2

13. Leave the default setting and finish the wizard. Then you can check the archive task show as below.

miria	≥				0 🔹	
MAIN	A > Archiving > CSNAS				START •)
 Easy Move Migration 	Archiving tasks overview	Tasks (1)			Active Inactive Any status 🚍 🗮 Q. C	
Backup						
Archiving		Archivetest	III QSAN	🗃 Repotest		
Z Tasks	Task					
CONFIGURATION						
Repositories						
A Policies	Completed 1					
Infrastructure	Warning 0					
Applications Security	Canceled 0					
•	Not started 0					
ACTIVITY						
🔧 Jobs						
🖻 Logs						

Figure 2-14 Create Archive Task Step 3

14. Run the archive task and check the process in the **Jobs** page. After complete, the data has been backed up to Atempo Miria.



minia									0 🗷
MAIN Dashboard Easy Move	A + Join Jobs Jobs Sueue • Job hype • Task type • + More filters Apply filters Revet filters								
 Backup 	Jobs								• c 📖
 Archiving 									
Tasks							Repotest	Dec 31, 2024, 6:28:09 PM	
CONFIGURATION			Task				Repotest	Dec 31, 2024, 6:28:10 PM	
Repositories			Archiving		00% 1.5 MB			Dec 20, 2024, 2:18:16 PM	
🔦 Policies			Task		1.5 MB			Dec 20, 2024, 2:18:18 PM	
Infrastructure			Archiving		00% 1.38 MB			Dec 20, 2024, 2:16:32 PM	
Applications Security			Task		1.38 MB			Dec 20, 2024, 2:16:32 PM	
•			Archiving		00% 1.25 MB			Dec 20, 2024, 2:13:37 PM	
ACTIVITY			Task		1.25 MB			Dec 20, 2024, 2:13:40 PM	
Jobs			Archiving		00% 1.13 MB			Dec 20, 2024, 2:12:03 PM	
			Task		1.13 MB			Dec 20, 2024, 2:12:03 PM	

Figure 2-15 Check Backup Process



3. CONCLUSION

Data protection and management are critical components of modern IT environments. A reliable and scalable solution is needed to ensure the security and accessibility of valuable information.

Integrating QSAN QSM4 CIFS shares with Atempo Archive provides a powerful, scalable, and efficient solution for data backup and archiving. This combination takes full advantage of QSAN's advanced storage technology and Atempo's flexible archiving capabilities, ensuring your critical data is securely stored and easily retrieved when needed.

The seamless setup process detailed in this document demonstrates how easy it is to configure and optimize this integration for your organizational needs. By leveraging QSM4's CIFS shares, users can enjoy a reliable storage platform with high availability and performance, while Atempo Archive ensures data is safely backed up, effectively managed, and in compliance with retention policies.

This solution is particularly beneficial for enterprises looking to simplify data protection workflows, reduce operational expenses and maximize storage utilization. With QSAN and Atempo working together, you can rest assured that your data is protected and supports the continuity of business operations.

By following the guidelines and best practices shared in this document, you can implement a robust backup strategy tailored to your unique needs. This approach not only enhances data protection, but also provides you with peace of mind knowing that your information is protected from potential risks and disasters.



4. **APPENDIX**

4.1. Apply To

QSM firmware 4.1.2 and later

4.2. Reference

Product Page

<u>XCubeNXT 8100 Series</u>

Document

<u>QSM 4 Software Manual</u>

