

SB Connectivity Arcserve Backup to Tape

This guide describes the steps for setting up Arcserve Backup for the use with the FAST LTA Silent Brick Library in Tape mode.

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orcserve®

INTRODUCTION

This guide describes the steps for setting up ArcServe Backup for the use with the FAST LTA Silent Brick Library in Tape mode.

The documentation was created with Silent Brick System Version 2.20.0.6 and Arcserve Backup version 18.0.

Recommended Library Emulation: Adic Scalar 1000

Recommended Drive Emulation: IBM ULT3580

Step 1 — Add Library

			Silent Brick Drive System Adi			
File View Tools Help				Please enter librar	ry name, description and choose the type of the lit	arary. You can change this settings any time.
System Administration						
Welcome	Liet SAN C	Clients Statistics		Library Name:		
Resources	Add R	emove 🔽 Context Menu		Description:		
Controllers	Iname -	Description	Barcode Range			
Shelves	Name ~	Description	barcoue kange			
Libraries				Custom Revision:		
Volumes	•			Vendor ID	Product ID	Default Revision
i test				ADIC	Scalar 1000	500A
E ZFS-Share-Intern				ADIC	Scalar 24	103D
- Settings				FAST-LTA	SBL 2000	100A
A Network				НР	ESL E-Series	2.00
Lusers				НР	MSL6480 Series	0400
Notifications Miscellaneous				SPECTRA	PYTHON	2000
Sme SMB						
SNMP						
X Services				Please	enter the barcode range to use for new media. A-	Z and 0-9 are allowed characters.
System Status				A leng	th of 6 characters is recommended (maximum 32)	. The first three characters of the
Overview				start an	nd end specifiers must match (e.g. 'TTT000' and 'T ith '999' (e.g. 'XXX000' to 'XXX999') the generated	TZZZ'). If the range end specifier
Statistics				Cilds Wit		labels will consist of numbers only.
History				Barcode Range Start: 4	400001	
				Barcode Range End: 4	400ZZZ	
1				1		Cancel

- Open the Silent Brick System GUI via a web browser
- Choose 'Libraries'
- Click 'Add'
- Enter a name
- Choose the desired library type

Step 2 — Add Drives

rive Name Prefix: umber of Drives: ustom Revision:	Drive-			
Vendor ID	Product ID	Default Re	ision	Media Type
HP	Ultrium 5-SCSI	Z23D		HP Ultrium 3000
IBM	ULT3580-TD5	B170		IBM TS1050
QUANTUM	ULTRIUM 5	3060		QUANTUM LTO-5

- Edit 'Drive Name Prefix' if needed.
- Choose a number of drives.
- Choose the desired drive type.

Step 3 — Add Bricks

Bricks to Library mentd Berode Serial No. Description Position ~ Used [GB] Capacity [GB] Greas Cap (GB) Rever Media 81506/15A 611/01 - - 12.002 Off Ck	Zabus Date 16.11.2016 11:53:27
me/Id Barcode Serial No. Description Position - Used [GB] Capacity [GB] Gross Cap [GB] Power Media 5	
me/Id Barcode Serial No. Description Position ~ Used [GB] Capacity [GB] Gross Cap [GB] Power Media 5	
me/Id Barcode Serial No. Description Position ~ Used [GB] Capacity [GB] Gross Cap [GB] Power Media 5	
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me/Id Barcode Serial No. Description Position ~ Used [GB] Capacity [GB] Gross Cap [GB] Power Media 5	
me/Id Barcode Serial No. Description Position ~ Used [GB] Capacity [GB] Gross Cap [GB] Power Media 5	
- BIANDEA 01/01 12002 OF DE	10.11.2010 11-53.27
	Cancel

- Choose the desired amount of Bricks from the list.
- Use 'CTRL' to choose multiple Bricks.
- Confirm by clicking 'Add'

Step 4 — Setup iSCSI SAN client

Targets Discovery Favorite Targets Volumes and Devices RADIUS Configuration		
	Protocol: V	
Configuration settings here are global and will affect any future connections made with the initiator.	Access: Client 🗸	
Any existing connections may continue to work, but can fail if the system restarts or the initiator otherwise tries to reconnect to a target.	Client Name:	
When connecting to a target, advanced connection features allow specific control of a particular connection.	iscsi	
	Initiator Name:	
iqn. 1991-05.com.microsoft:win-shmu49sd0v2		
	Allow Unauthenticated Access	
ign. 1991-05.com.microsoft:win-shmu49sd0v2 To modify the initiator name, click Change. Change		
To modify the initiator name, dick Change. Change	Allow Unauthenticated Access	
	Allow Unauthenticated Access User Who Can Authenticate for the Client (Using CHAP) User Name:	
To modify the initiator name, click Change. Change To set the initiator CHAP secret for use with mutual CHAP, CHAP	Allow Unauthenticated Access User Who Can Authenticate for the Client (Using CHAP)	
To modify the initiator name, click Change. Change	Allow Unauthenticated Access User Who Can Authenticate for the Client (Using CHAP) User Name:	
To modify the initiator name, click Change. Change To set the initiator CHAP secret for use with mutual CHAP, CHAP To set up the IPsec tunnel mode addresses for the initiator, IPsec	Allow Unauthenticated Access User Who Can Authenticate for the Client (Using CHAP) User Name: Password:	
To modify the initiator name, click Change. Change To set the initiator CHAP secret for use with mutual CHAP, CHAP dick CHAP. To set up the IPsec tunnel mode addresses for the initiator, Toper	Allow Unauthenticated Access Iser Who Can Authenticate for the Client (Using CHAP) User Name: Password: Retype Password: Target Name: iqn.2017-01.de.fast-Ita:sb-lab.seplib	
To modify the initiator name, click Change. Change To set the initiator CHAP secret for use with mutual CHAP, CHAP To set up the IPsec tunnel mode addresses for the initiator, IPsec To generate a report of all connected targets and devices on Report	Allow Unauthenticated Access User Who Can Authenticate for the Client (Using CHAP) User Name: Password: Retype Password:	

(i) Best use with 10GB ethernet

- Get your iscsi initiator name from Windows
- Set up an iscsi client via Silent Brick web interface by choosing protocol iSCSI
 - Client Name: Enter the IP or the name of the client windows host
 - Initiator name: Enter the initiator string you retrieved in step 1
 - Authentication: If needed, authentication may be set up. Recommendation is no authentication

Step 5 — Adjust iSCSI blocksize

Computer Management File Action View Help Computer Management (Local Computer Management (Local System Tools Computer Actional Constraints Computer Management Computer Ma		ureues son e controllers Adepter, Sol Indiane Toursont Damag Spaces Controller reduces al Serial Bus controllers	Microsoft BCS Initiator Properties X General Driver Details Exercise Microsoft SCS Initiator Monanti SCS Initiator Property Gene Gad	Monumb (C2) Initial Paparita General Dave Tomin Events Que Round (C2) Initial Tomin Gel Mon Gel Months 425 You (1 0005h-1011)	Register (Mar) Mar Terration (Mar) Mar Re (Der Vereint Mar)
C Task Scheduler Event Viewer S Shared Folders Me Local Users and Groups N Performance	> ■ Computer > ■ Dick drives > ■ Dick drives > ■ DD/DCD-ROM drives > ₩ Human Inferies Devices	1 devices	Recreated ISCSI Initiator Property	1804	> 14271556-26757-1102-416-0000;272424; Fatore > 142816-4-6-4788-4784696 effective > 142816-4-6788-7884766 effective > 142816-4-6788-788476 effective > 1428164-42571-1424-40000;278417 Effective > 1428647-42571-1424-40000;41110 Effective > 1428647-42571-1424-40000;41110 Effective > 1428647-42571-1424-40000;4110 Effective > 1428647-42571-1424-40000;41010 Effective > 1428647-42571-1424-40000;41010 Effective

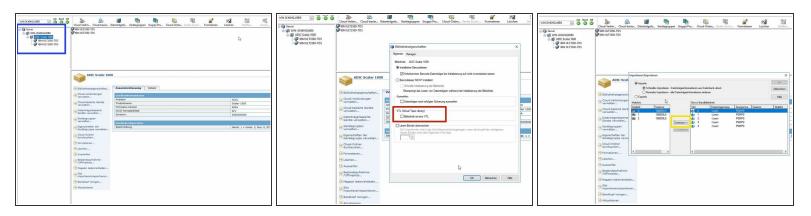
- Open your Windows Computer Manager and expand "Storage Controllers"
- Select your iSCSI Initiator and choose properties
- Switch to Details and choose the property "Class Guid"
- Open regedit and navigate to HKEY_LOCAL_MACHINE System CurrentControlSet Control
 Class <iSCSI Class ID> <ID> Parameters
- In Parameters adjust the' MaxTransferLength'. This value must match your Tape Block size (configured later). 1 MB=0x100000, 512KB=0x80000, 256KB=0x40000. Recommended minimum 256 K

WWN to connect with.

Step 6 — Setup fibre channel client

		 Only supported for controllers with fibre channel
Edit SAN Client	e Fibre Channel: Client	 Client Name: Enter the IP or the name of the client windows host.
Client Name:	Ping	 Target Port: Choose port to connect to.
Fibre Channel Initiator WWPN: Target Port:	21:00:00:24:ff:04:6f:1a	 Port enumeration is from right to left.
		 When set to 'Everyone' the left Port 2 is used.
		Initiator WWN: Choose partner

Step 7 — Connect Arcserve Backup



- Make sure your library is found by Arcserve
- Make sure **NOT** to set mode to VTL
- Import all tapes into the Slots

Step 8 — Configure the Tape Blocksize

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A For iSCSI connections the Tape Blocksize must match the iSCSI Transfer Length set up in Step 3

↑ Optimal tape blocksize: 512KB

A Tapes have to be formatted after adjusting the tape blocksize

- Open the registry under HKEY_LOCAL_MACHINE\SOFTWARE\ComputerAssociates\CA ARCServe Backup\Base\TapeEngine
- Find the tape library matching your library name
- Add key "ForceBlockSize" with a decimal value of 512
- Verify that the correct blocksize is set in the tape drives

Step 9 — Format the tape

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Server MIN-2K46HGJI686 ADIC Scalar 1000 MIN ULT3500-TD5 MIN ULT3500-TD5	Slot: D <100001L5> <leerer d<br="">Slot: 1> <100001L5> <leerer d<br="">Slot: 2> <100003L5> <leerer d<br="">Slot: 2> <100003L5> <leerer d<br="">SlBM ULT3580-TD5 BIBM ULT3580-TD5</leerer></leerer></leerer></leerer>	Datentr.> Datentr.>	ann agurgappur a	appertoin courto			
			Formatieren				×
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	Cloud-Verbindungen verwalten	Zus					
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	Gerätegruppen verwalten	Date					
		Aust	Name des neuen Da	tenträgers TEST_01			0001L5
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	verwalten	Date	Rotation verwender	N			
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	C Slot	Grupp	enname				PGRP0
	Slot importieren/exportieren						

• Format the tape with the new blocksize