

SB Connectivity Veritas Backup Exec 20 -Backup to Tape

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

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INTRODUCTION

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

This guide was created with Veritas Backup Exec Version 20.6.

Recommended VTL Configuration

Library Emulation: HP MSL6480

Tape Drive Emulation: IBM

Step 1 — Add Library

		2	BIERL BRICK DRIVE SYSTEM ACI			
File View Tools Help				Please enter lib	rary name, description and choose the type of the libr	ary. You can change this settings any time.
System Administration						
Welcome	Liet SAN C	lients Statistics		Library Name:		
- Resources	Add 🔳 Re	move 🛜 Context Menu		Description:		
Controllers	Indrine -	Description	Barcode Range			
Shelves	Hume	besulption	burcobe hange			
				Custom Revision:		
Libraries				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				HP	ESL E-Series	2.00
Lusers				HP	MSL6480 Series	0400
Notifications Miscellaneous				SPECTRA	PYTHON	2000
SME SMB						
SNMP						
X Services				Pleas	se enter the barcode range to use for new media. A-Z	and 0-9 are allowed characters.
System Status	1			A lei	ngth of 6 characters is recommended (maximum 32). and end specifiers must match (e.g. 'TTT000' and 'TT	The first three characters of the
 Overview 	•			ends	with '999' (e.g. 'XXX000' to 'XXX999') the generated la	bels will consist of numbers only.
Statistics						
History				Barcode Range Start:	400001	
				Barcode Range End:	400ZZZ	
				L		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

ive Name Prefix: umber of Drives: ustom Revision:	Drive-	Drive-				
Vendor ID	Product ID	Default Revision	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	Barcode	Serial No. B1040184	Description	Position ^ 01 / 01	Used [GB]	Capacity (GB)	Gross Cap [GB] 12.002	Modia Status Cik	Date 16.11.2016	11:53:27
			Description		Used [GB]	Capacity (GB)				: 11:53:27
			Description		Used (GB)	Capacity [GB]				11:53:27
			Description		Used [GB]	Capacity [GB]				11:53:27
			Description		Used [GB] -	Capacity [GB]				11:53:27
			Description		Used [GB]	Capacity [GB]				i 11:53:27
			Description		Used [GB]	Capacity [GB]				i 11:53:27
			Description		Used [GB]	Capacity [G8]				11:53:27
			Description		Used [GB]	Capacity [GB]				11:53:27
	-					-				11:53:27
									Cance	el Ad
									Carros	

- 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

iSCSI Initiator Properties	Add SAN Client
Targets Discovery Favorite Targets Volumes and Devices RADIUS Configuration	Protocol: ISCSi
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: Ping
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
To modify the initiator name, dick Change. Change	User Who Can Authenticate for the Client (Using CHAP)
To set the initiator CHAP secret for use with mutual CHAP, CHAP	User Name:
	Password:
To set up the IPsec tunnel mode addresses for the initiator, dick IPsec.	Retype Password:
To generate a report of all connected targets and devices on Report	Target Name: iqn.2017-01.de.fast-lta:sb-lab.seplib
the system, dick Report.	Target IP: 192.168.2.1
	Cancel Ad

(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	ueues sors e controllers Adapter, SAS 3000 series, 8-port with 1068 rorooft (SCS1 Initiator	Microsoft (SCSI Initiator Properties X	Microsoft (SC3 Initiator Frequencies) General Dowr Denke Evens Company Denke Series Proceen Proceen	x Region (dater
 Statution Statution	ronoff Storage Space Contoller i derices tal Senil Bux controllers	General Drver, Details Evens Microsoft GCS Instatur Property Chane Good V Vilue (4c)6e/79 + e225 11ce 8fc 108/02/be10318) OK Cancel	Date Soft V *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***	Fit Dit Norm Fit Dit Norm Norm Norm Fit Dit Norm Norm Norm Norm Fit Dit Norm Norm

- 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

Step 6 — Setup fibre channel client

			Only supported for controllers with fibre channel
Edit SAN Client	e V Fibre Channel: Client V	•	Client Name: Enter the IP or the name of the client windows host.
Client Name:	Ping	•	Target Port: Choose port to connect to.
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 — Init VTL in Veritas Backup Exec

vveic	he Art von Speicher möchten Sie konfigurieren?
2	Plattenbasierter Speicher Lokale oder Remote-Datenträgerspeicher, Plattenspeichergeräte, Deduplizierungsspeicher, Speichergruppen, virbuelle Datenträger und alte Backup-to-Disk-Ordner stehen möglicherweise zur Konfiguration zur Verfügung.
	Cloud-Speicher Ein Speichergerät, über das Sie Backup-Daten in die Cloud senden können.
4	Netzwerkspeicher OpenStorage-Geräte, NDMP-Server und Remote Media Agent for Linux sind möglicherweise zum Konfiguriere verfügbar.
	Bandspeicher Installieren von Bandtreibern, Ersetzen oder Hinzufügen von Hot Swap-fähigen Speichergeräten und Konfigurieren von Wechsierpartitionen und Könfigurieren von Barcoderegeln sind Aufgaben, die möglicherweis verfügbar sind.
9	Speicherpools Speichergerätepools und Backup Exec-Serverpools sind möglicherweise zum Konfigurieren verfügbar.
Welche (unterschiedlichen Speicherarten gibt es? Weiter > Abbreche

 In Case Backup Exec does not inform you about new hardware choose to create a new Tape Storage in the Storage Management

WWN to connect with.

 As soon as Backup Exec has recognized new devices it will inform you to restart the service. Do so when asked.

Step 8 — Configure the Tape Blocksize

Wechsler 0001 HP MSL6480 Series	Online	Wechsler			Provider:	Benutzermodustreiber
				Aktive Warnmeldungen	Reserviert von:	
Schächte		Wechsl		Statistische Daten	Hersteller:	IBM
Bandlaufwerk 0	001 (Kein Medium)	P-ndlau			Produkt-ID:	ULT3580-TD5
	speicher könnguneren				Firmware:	B170
	Cloud-Speicher konfigurieren				Laufwerktyp:	LTO 64K (64K,10,0,E,HU)
	Anhalten			Medieneigenschaften	Medientyp:	LTO
	Deaktivieren				Im Einsatz seit (Datum):	12.02.2020 16:44:54
	Offline				Seriennummer:	IBM ULT3580-TD5 500000100
	Backup Exec-Diagnoseprogramm				Primäre Anfragenzeichenkette:	IBM ULT3580-TD5 B170
	Löschen	Delete			Unterstützt Hardwareverschlüsselung:	Ja
	Auswurf	•		Unterstützt WORM:	Ja	
	Jetzt inventarisieren und katalogisieren				Hardwarekomprimierung:	Aktiviert
	Inventarisierung				Blockgröße:	64 KB 🔹
	Katalog			Puffergrö	Puffergröße:	64 KB •
	Reinigen				Pufferzahl:	10 🕃
	Formatieren				Oberer Schwellenwert:	0
	Kennung					Auf Standardeinstellungen zurücksetzen
	Löschung	•			Modus 'Einzelblöcke lesen'	Deaktiviert
	Wiederherstellung				Modus 'Einzelblöcke schreiben'	Aktiviert
	Details				SCSI-Pass-Through-Modus lesen	Deaktiviert
					SCSI-Pass-Through-Modus schreiben	Aktiviert
	Kopieren	Strg+C			Johnston	

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

- Choose details on each Tape Drive added by the Silent Brick VTL
- Adjust the Tape Block Size and the Puffer Size in the Tape Drive Properties
 (i) Set both values to the iSCSI Transfer Length defined in Step 3

Step 9 — Import and Initialize the Library

Vechsler 0001 P MSL6480 Series	Online	Wechsler	Č.
Schächte	Speicher konfigurieren	sl	
Bandlaufwerk 0	Cloud-Speicher konfigurieren	au.	
	Backup Exec-Diagnoseprogramm		
	Einlesen		
	Jetzt inventarisieren und katalogisieren		
	Inventarisierung	•	
	Importieren	•	Medium jetzt importieren
			Nach Import inventarisieren
	Wiederherstellung		Planen
	Details		
	Kopieren St	rg+C	

- Choose "Import new Media" from the context menu of the Tape Library Slots in order to import the Tape-Bricks from the I/O Slot.
- Your tape Library is now ready to use. Start by creating Media Pools for the newly discovered tapes.