



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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VERITASTM

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

The screenshot shows the Silent Brick Drive System GUI. On the left, the 'Libraries' menu item is highlighted with a red box. In the main area, the 'Add' button is highlighted with a blue box. On the right, the 'Add Library' dialog is open. The 'Library Name' field is highlighted with a yellow box. The 'Custom Revision' table is highlighted with a green box. The 'Barcode Range Start' and 'Barcode Range End' fields are highlighted with blue boxes.

Please enter library name, description and choose the type of the library. You can change this settings any time.

Library Name:

Description:

Custom Revision:

| Vendor ID | Product ID | Default Revision |
|-----------|----------------|------------------|
| ADIC | Scalar 1000 | 500A |
| ADIC | Scalar 24 | 103D |
| FAST-LTA | SBL 2000 | 100A |
| HP | ESL E-Series | 2.00 |
| HP | MSL6480 Series | 0400 |
| SPECTRA | PYTHON | 2000 |

Please enter the barcode range to use for new media. A-Z and 0-9 are allowed characters. A length of 6 characters is recommended (maximum 32). The first three characters of the start and end specifiers must match (e.g. 'TTT000' and 'TTTZZZ'). If the range end specifier ends with '999' (e.g. 'XXX000' to 'XXX999') the generated labels will consist of numbers only.

Barcode Range Start:

Barcode Range End:

Cancel Add

- 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

Add Drives

Drive Name Prefix:

Number of Drives:

Custom Revision:

| 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

Add Bricks to Library

| Name/Id | Barcode | Serial No. | Description | Position | Used [GB] | Capacity [GB] | Gross Cap [GB] | Power | Media Status | Date |
|---------|---------|------------|-------------|----------|-----------|---------------|----------------|-------|--------------|---------------------|
| - | - | B15A018A | | 01 / 01 | - | - | 12,002 | Off | OK | 16.11.2016 11:53:27 |

- 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

Targets | Discovery | Favorite Targets | Volumes and Devices | RADIUS | Configuration

Configuration settings here are global and will affect any future connections made with the initiator.

Any existing connections may continue to work, but can fail if the system restarts or the initiator otherwise tries to reconnect to a target.

When connecting to a target, advanced connection features allow specific control of a particular connection.

iqn.1991-05.com.microsoft:win-shmu49sd0v2

To modify the initiator name, click Change.

Change...

To set the initiator CHAP secret for use with mutual CHAP, click CHAP.

CHAP...

To set up the IPsec tunnel mode addresses for the initiator, click IPsec.

IPsec...

To generate a report of all connected targets and devices on the system, click Report.

Report

Add SAN Client

Protocol: iSCSI

Access: Client

Client Name:

Ping

iSCSI

Initiator Name:

☐ Allow Unauthenticated Access

☒ User Who Can Authenticate for the Client (Using CHAP)

User Name:

Password:

Retype Password:

Target Name: iqn.2017-01.de.fast-lta:sb-lab.seplib

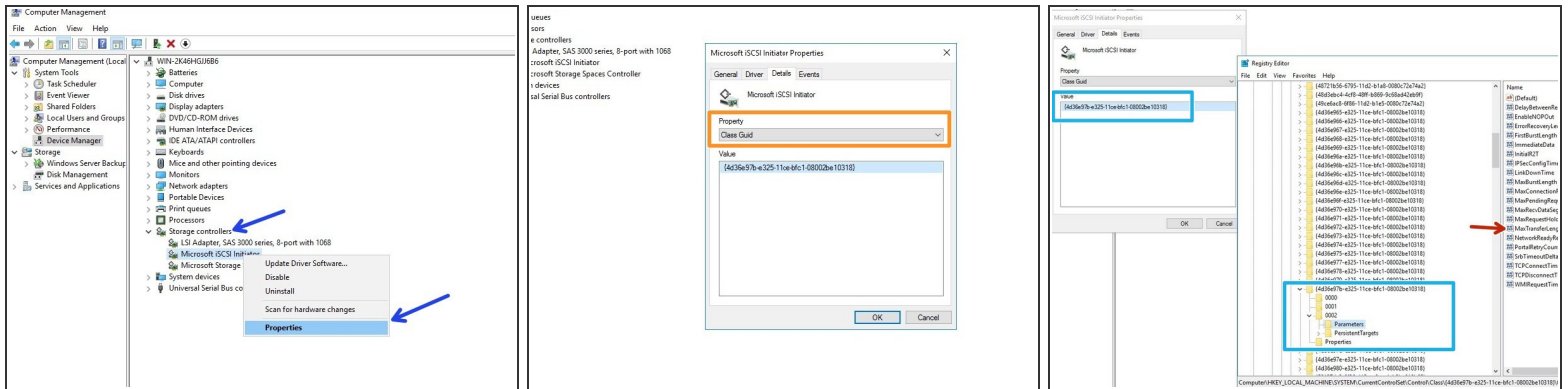
Target IP: 192.168.2.1

Cancel Add

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



- 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

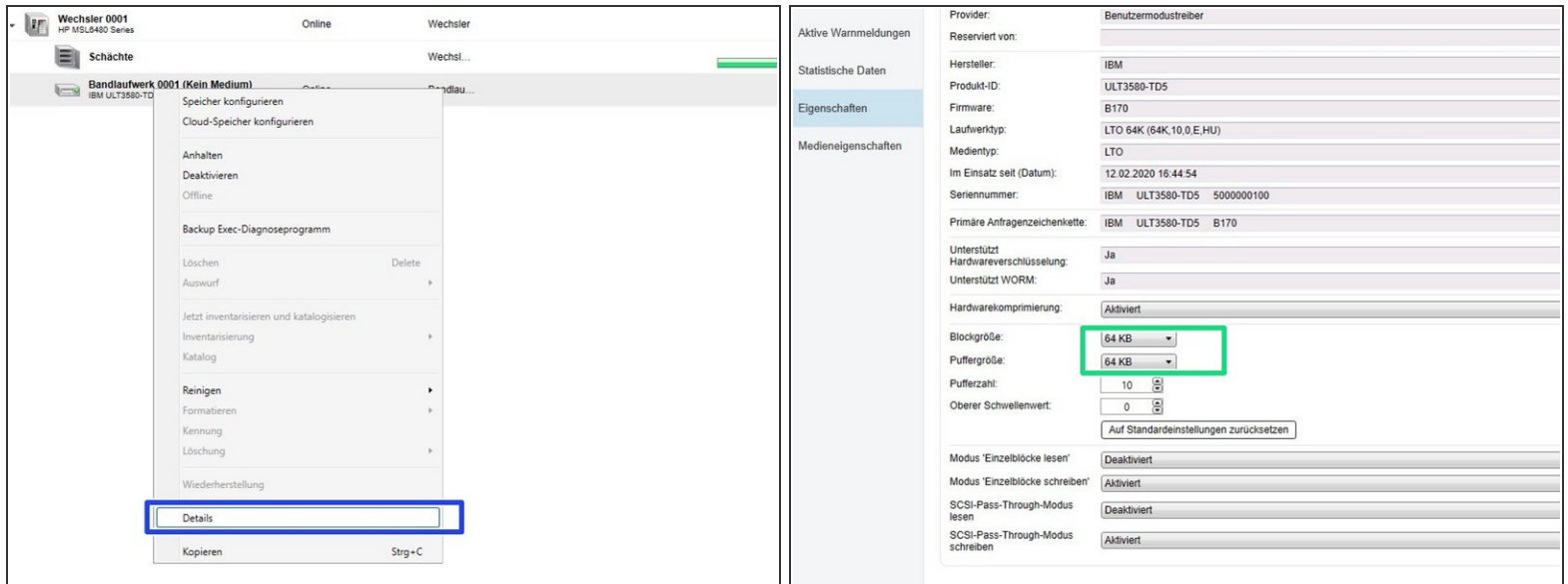
Step 6 — Setup fibre channel client

- ✓ Only supported for controllers with fibre channel
- Client Name: Enter the IP or the name of the client windows host.
- Target Port: Choose port to connect to.
 - Port enumeration is from right to left.
 - When set to 'Everyone' the left Port 2 is used.
- Initiator WWN: Choose partner WWN to connect with.

Step 7 — Init VTL in Veritas Backup Exec

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



The screenshot displays the Veritas Backup Exec interface. On the left, the 'Bandlaufwerk 0001 (Kein Medium)' is selected, and a context menu is open with 'Details' highlighted. On the right, the 'Eigenschaften' (Properties) tab is active, showing various settings for the tape drive. The 'Blockgröße' (Block size) and 'Puffergröße' (Buffer size) are both set to 64 KB, which are highlighted with a green box.

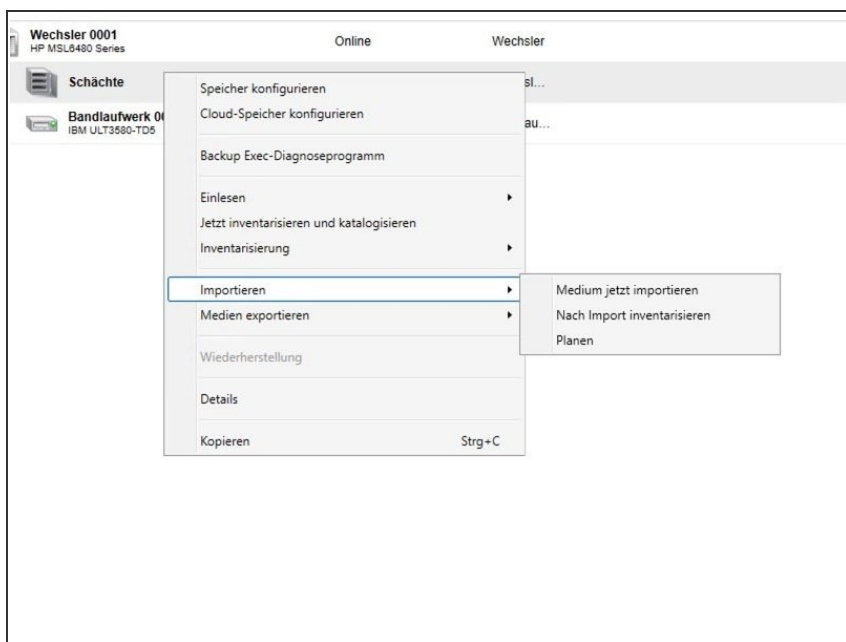
⚠ For iSCSI connections the Tape Blocksize must match the iSCSI Transfer Length set up in Step 3

⚠ Optimal tape blocksize: 512KB

⚠ 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
- ① Set both values to the iSCSI Transfer Length defined in Step 3

Step 9 — Import and Initialize the Library



- 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.