



# SB Connectivity Veeam Virtual Tape Library

This guide describes how to connect Veeam Backup & Replication to a FAST LTA Silent Brick System configured as Virtual Tape Library.

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## INTRODUCTION

This guide describes how to connect Veeam Backup & Replication to a FAST LTA Silent Brick System configured as Virtual Tape Library.

This guide is tested with Veeam 11 and the Silent Brick System Version 2.39

Recommended configuration parameters:

- Tape Library Emulation: Adic Scalar 1000
- Tape Drive Emulation: IBM ULTRIUM
- Block Size: 1 MB

## 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 box 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 a yellow box.

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	0400
HP	MSL6480 Series	0400
SPECTRA	PYTHON	2000

- Open the Silent Brick System GUI via a web browser
- Choose 'Libraries'
- Click 'Add'
- Enter a name
- Choose the desired library type (See guide details in the first chapter)

## Step 2 — Add Drives

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. (See guide details in the first chapter)

## Step 3 — Add Bricks

Name/Id	Barcode	Serial No.	Description	Position	Used [GB]	Capacity [GB]	Gross Cap [GB]	Power	Media Status	Date
-	-	B15A018A		01 / 01	-	-	12,000	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'

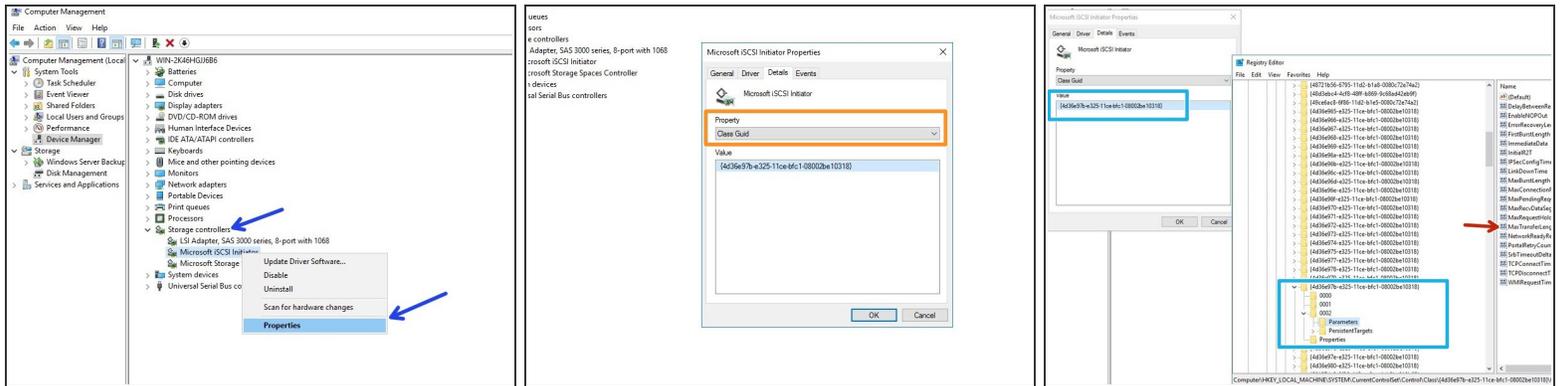
## Step 4 — Setup iSCSI SAN client

The image displays two screenshots from the Veeam Backup & Replication interface. The left screenshot shows the 'iSCSI Initiator Properties' dialog box, with the 'Configuration' tab selected. The 'Initiator Name' field contains the value 'iqn.1991-05.com.microsoft:win-shmu49sd0v2' and is highlighted with a yellow box. The right screenshot shows the 'Add SAN Client' dialog box. The 'Protocol' is set to 'iSCSI', 'Access' is 'Client', and 'Client Name' is empty. The 'Initiator Name' field is highlighted with a red box. The 'Authentication' section has 'User Who Can Authenticate for the Client (Using CHAP)' selected. The 'Target Name' is 'iqn.2017-01.de.fast-lta:sb-lab.seplib' and 'Target IP' is '192.168.2.1'.

### 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

**Edit SAN Client**

ISCSI: None    Fibre Channel: Client

Client Name:     Ping

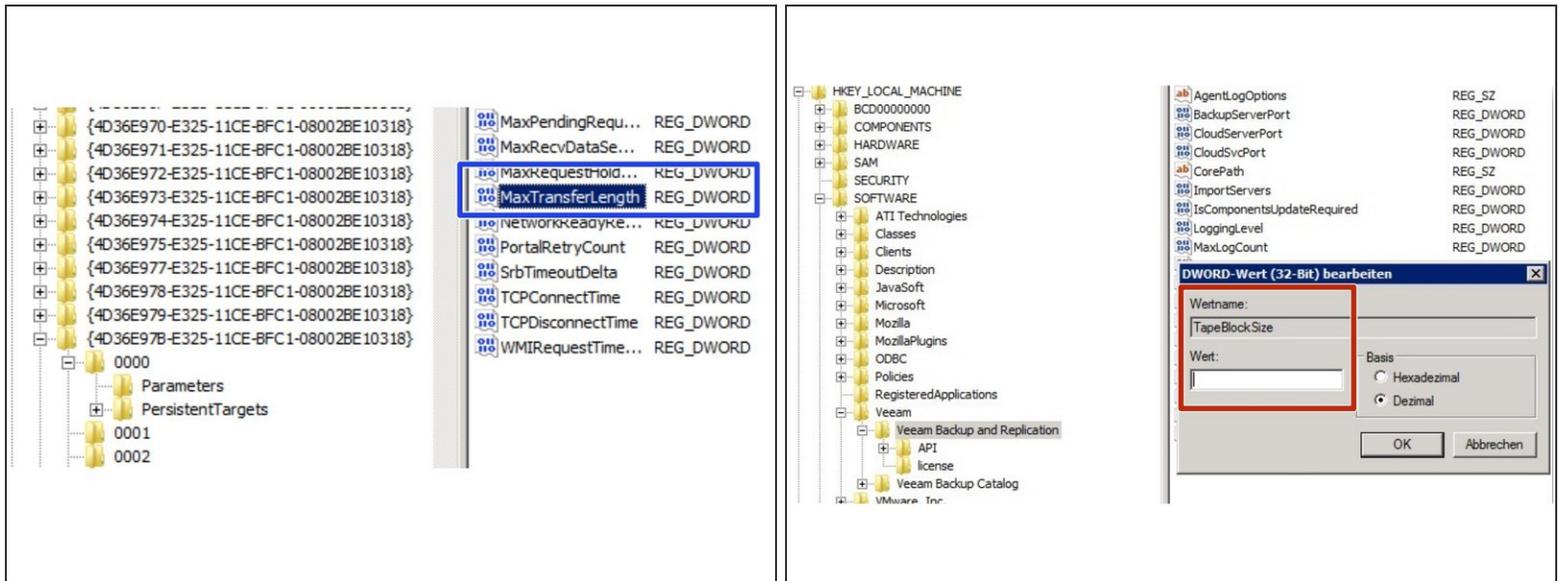
Fibre Channel

Initiator WWPN: 21:00:00:24:ff:04:6f:1a

Target Port: Port 1

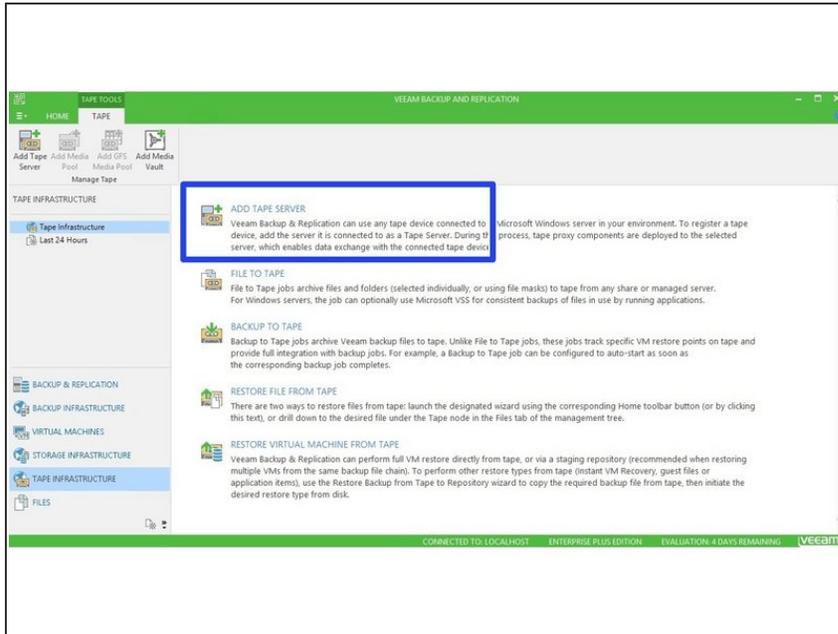
- Only supported for controllers with fibre channel
- Client Name: Enter the IP or the name of the client windows host.
- Target Port: Choose port to connect to.
  - Port enumeration is from right to left.
  - When set to 'Everyone' the left Port 2 is used.
- Initiator WWN: Choose partner WWN to connect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

## Step 7 — Preparation of your Veeam Host



- Connect the created library to your Veeam host via iSCSI or FibreChannel
- Set the max transfer length via regedit when using iSCSI. Path is HKEY\_LOCAL\_MACHINE - System - CurrentControlSet - Control - Class - <iSCSI Class ID> - <ID> - Parameters
  - ① Recommendation: 1M ( Hex: 0x100000 )
- Set the Tape Block Size for Veeam via regedit
  - ① Recommendation: 1M ( Hex: 0x100000 )

## Step 8 — Connect Tape Library



- Rescan your tape server in Veeam
  - Add new tape server first if not configured yet
- Enable 'Native SCSI Support' in the Library properties
- Define the blocksize in the Tape Drive properties
-  Recommendation: 1M
- Format new tapes when all values are configured properly

 **Blocksizes will be stored in the tape header. When changing the Blocksize after formatting, a reformat is necessary.**

## Step 9 — Define pools and backup jobs

- Follow the Veeam instructions for this step.