FAST LTA
We secure Petabytes.

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.

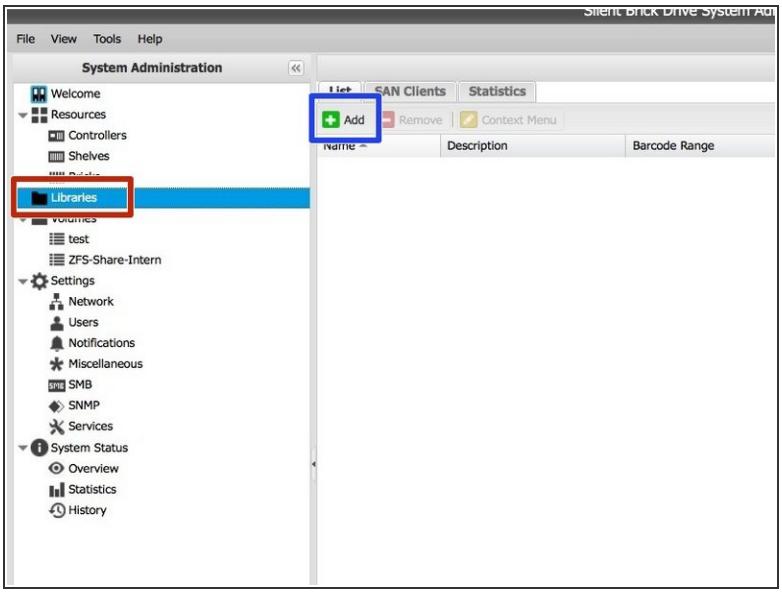
This guide is tested with Veeam 11 and the Silent Brick System Version 2.39

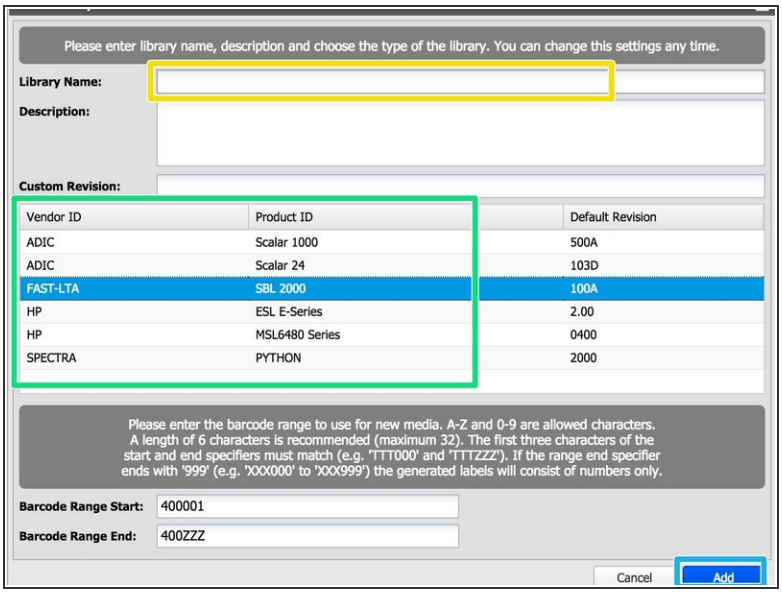
Recommended configuration parameters:

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

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Step 1 — Add Library

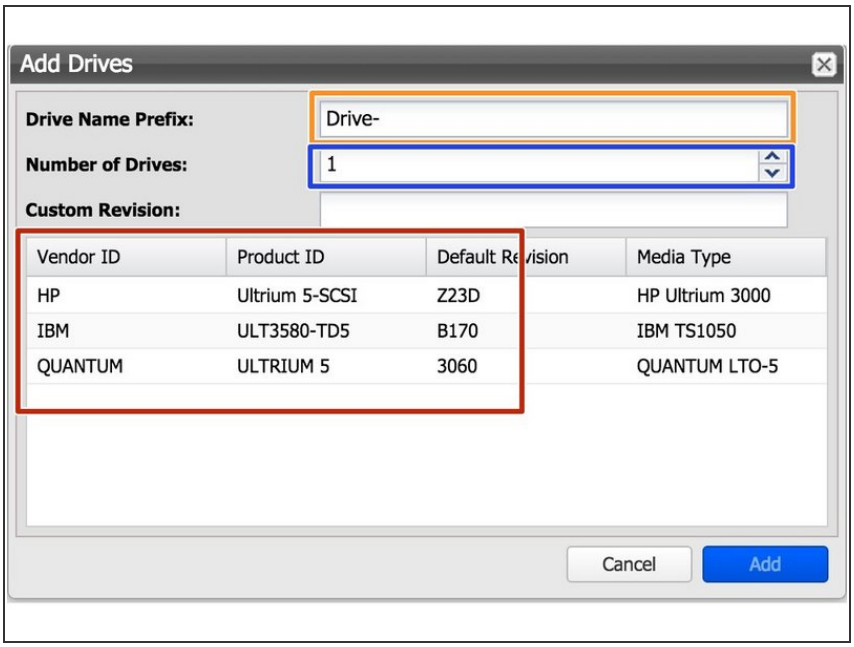




- Open the Silent Brick System GUI via a web browser
- Choose 'Libraries'
- Click 'Add'
- Enter a name
- Choose the desired library type

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Step 2 — Add Drives



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

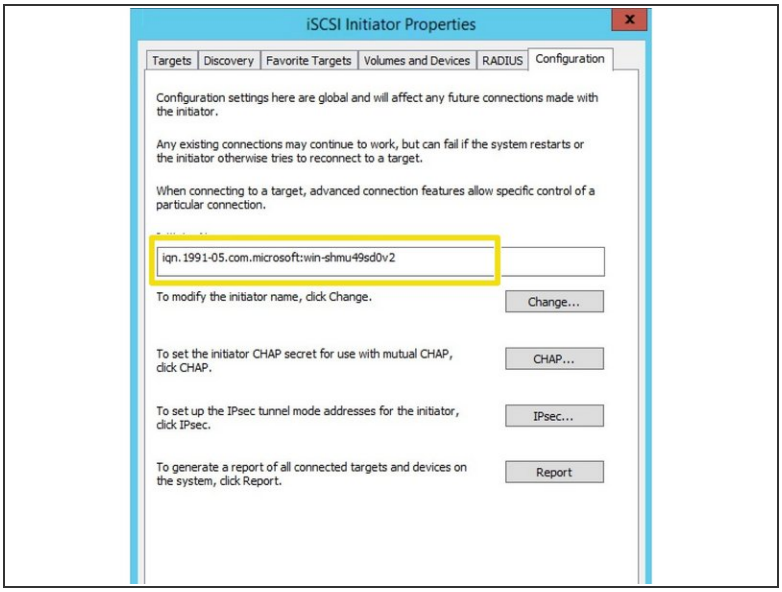
Step 3 — Add Bricks

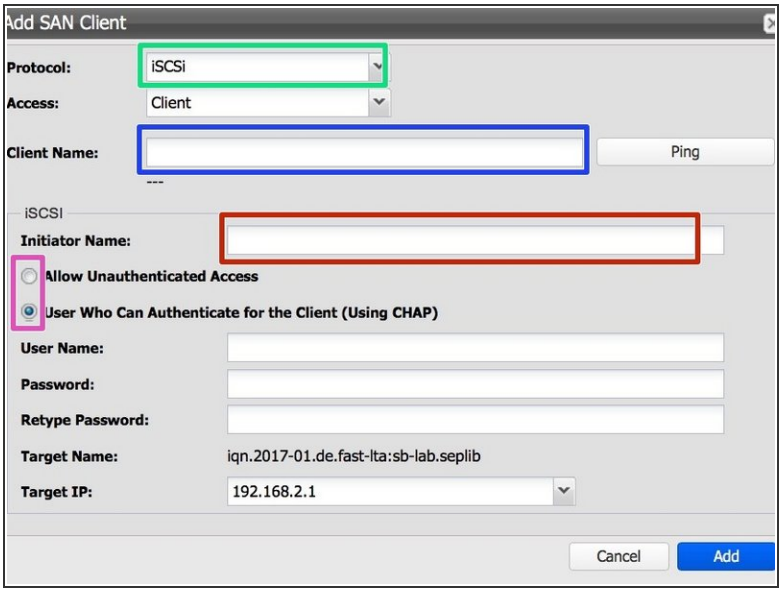


- Choose the desired amount of Bricks from the list.
- Use 'CTRL' to choose multiple Bricks.
- Confirm by clicking 'Add'

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Step 4 — Setup iSCSI SAN client

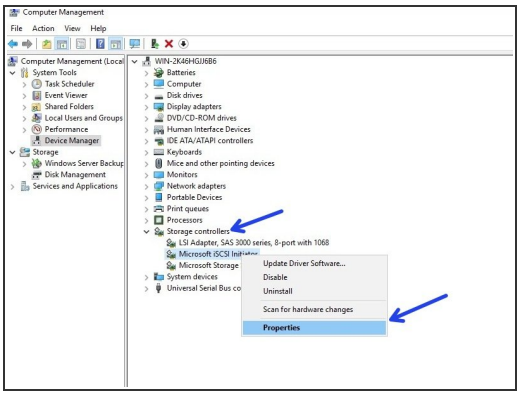


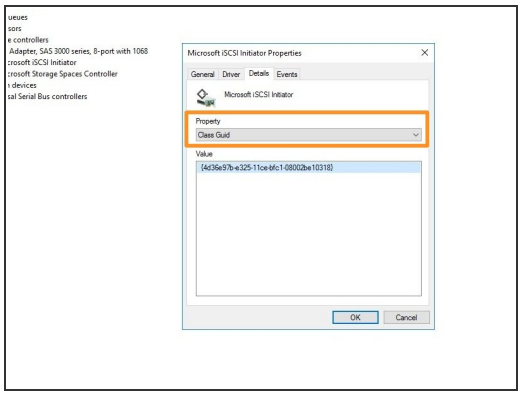


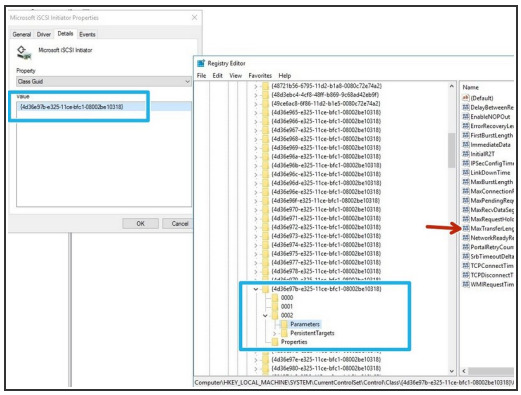
Best use with 10GB ethernet

- 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



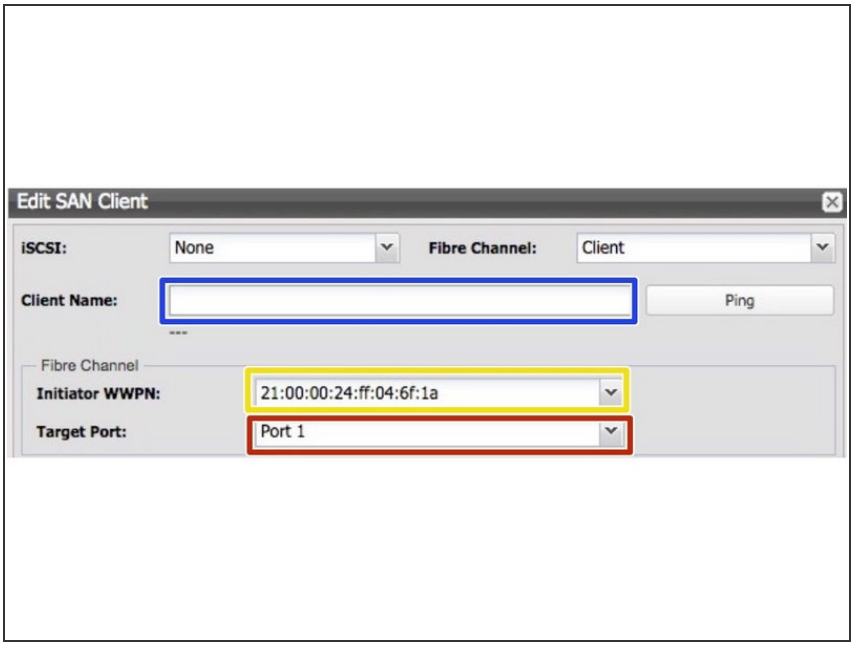




- Open your Windows Computer Manager and expand "Storage Controllers"
- Select your iSCSI Initiator and choose properties
- Switch to Details and choose the property "Class Guid"
- Open regedit and navigate to **HKEY_LOCAL_MACHINE - System - CurrentControlSet - Control - Class - <iSCSI Class ID> - <ID> - 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

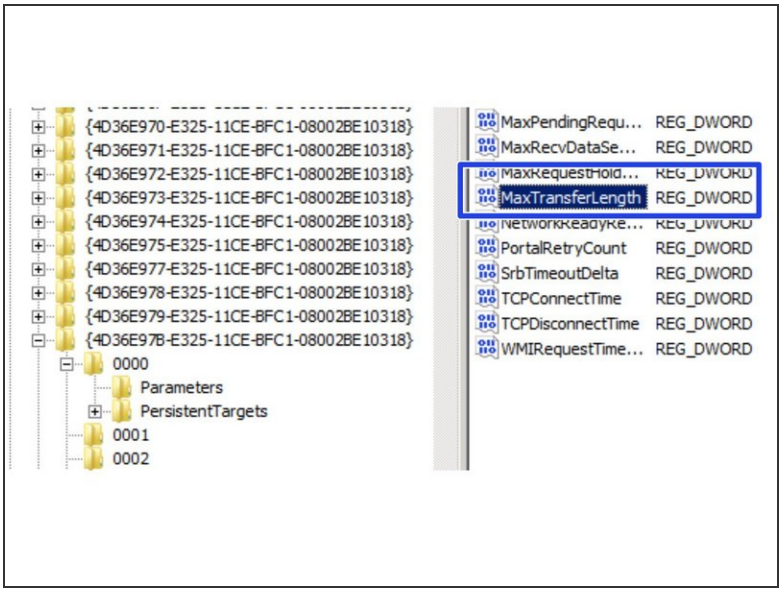
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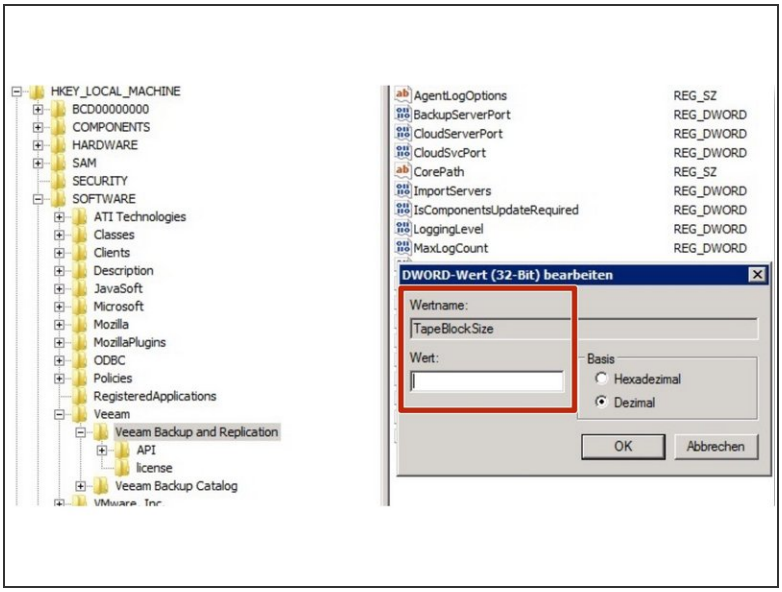
Step 6 — Setup fibre channel client



- [x] 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



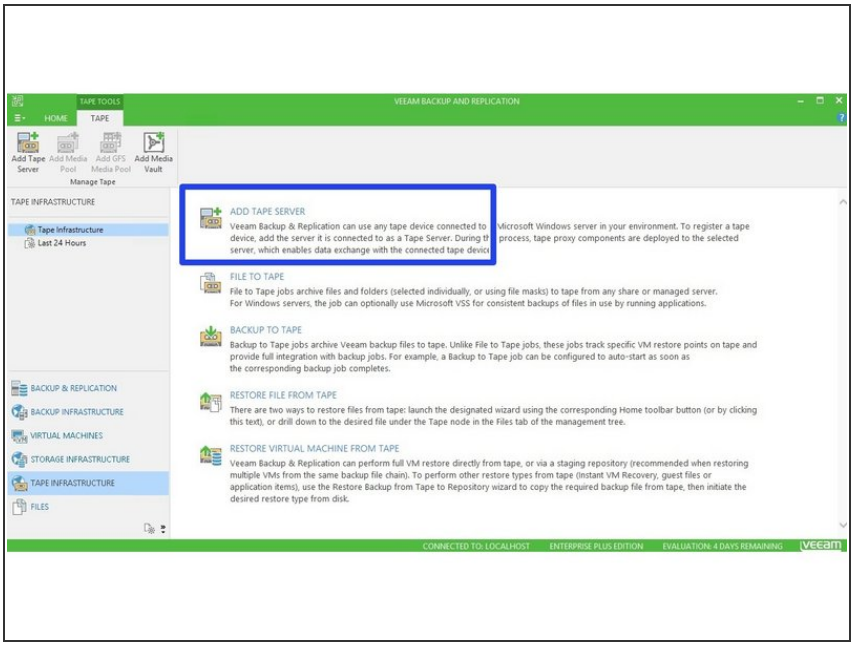


- Connect the created library to your Veeam host via iSCSI or FibreChannel
- Set the max transfer length via regedit when using iSCSI. Path is HKEY_LOCAL_MACHINE - System - CurrentControlSet - Control - Class - <iSCSI Class ID> - <ID> - Parameters

  ⓘ Recommendation: 1M (Hex: 0x100000)
- Set the Tape Block Size for Veeam via regedit

  ⓘ 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.

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