Silent Bricks

Software Version **2.57**

Information

This version is **recommended** for all Silent Brick Controllers and Drives.

Version: 2.59.0.8 – recommended, mandatory for systems with SW version 2.57

File name: fast-sb-update-2.59.0.8.tar

Download here: **https://fastlta.com/sb-sw-259-en**

How to update your system

1. Make sure that your system is at least on version 2.31. If in doubt, contact technical support (see end of document).
2. Download the new version and save the .tar file (do not unpack the file!).
3. Stop all access to the system:

   a. "Eject" tapes in virtual tape libraries via the managing software.

   b. unmount SNAS volumes in the web interface and take Silent Bricks offline
4. Now install the update (fast-sb-update) via the service area from the user interface and let the process complete. The system will reboot after completion.

   DO NOT REBOOT THE SYSTEM BY YOURSELF!
5. Log in again and check the version.

Hello.

New features

Fast Clone Support for Veeam Backup & Recovery
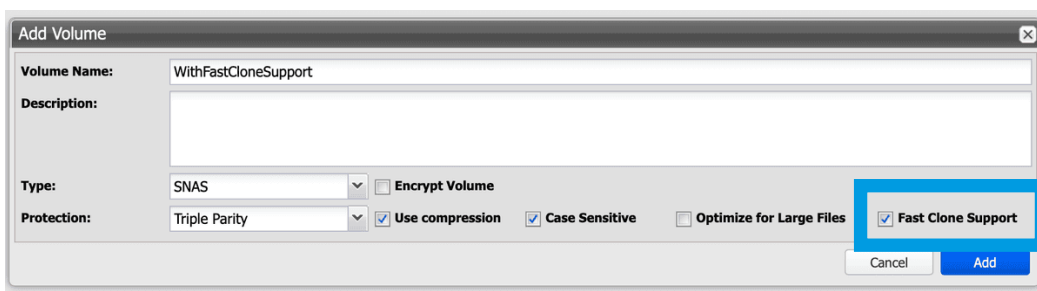
(FB-30111)

> **Notes:**
>
> This function is only available on systems with a controller (G-5 series).
>
> For Forever Incremental (Primary Target), we recommend using the flash-based Silent Brick Plus due to the high I/O requirements for daily merges.

By enabling **Fast Clone Support**, you can take advantage of the Fast Clone technology provided by Veeam Backup & Replication. This technology makes it possible to create faster synthetic full backups and forever incremental chains, resulting in a significant reduction in the time and storage space required.

To use Fast Clone Support, it is necessary to create a new volume with the "Fast Clone Support" function enabled and set it up as a target in Veeam. If the backup job within Veeam is configured to generate cyclic synthetic full backups, the new volume then benefits from reduced storage space consumption over the runtime, as well as significantly faster backups.

If the backup job is defined as Forever Incremental, the volume benefits from a significantly faster daily merge process.

More information on Fast Clone Support can be found on our website at https://www.fast-lta.de/en/topic/fast-clone-support

Dialog for creating a new volume - Fast Clone Support

Summary	
Status:	Online
Virtually Used Disk Space:	2.561 GB �… 70,8%
└ **Contained Snapshots:**	0 GB ▢ 0%
Physically Used Disk Space:	1.086 GB
└ **Saved by Clone Support:**	1.475 GB
Available:	1.055 GB
Capacity:	2.141 GB (3.001 GB gross)
Reported Capacity:	3.616 GB
Date Created:	15.07.2024 12:06:04

Information on the volume with (Fast) Clone Support

Improved support for the S3 interface
(FB-29522)

— Already available in version 2.57 —

> **Attention:**
>
> S3 volumes with object locking are no longer supported since version 2.57 and must be migrated. New S3 volumes include support for object locking, as well as improvements in performance and storage space requirements.

A necessary update of the S3 library used in the Silent Brick System entails far-reaching changes that optimize memory consumption and lead to a significant increase in performance when handling S3 shares.

This applies in particular to flash-based Silent Bricks such as the Silent Brick Plus.

The previous implementation of the S3 interface without object locking is no longer supported with this version. **Existing S3 shares without "Object Locking Support" will be terminated with the update** and can no longer be started. After the update, existing data can be accessed via an automatically created SMB share.

> **Attention:**
>
> If you are already using S3 shares in your system, **please read the notes at the end of this document before updating** or contact our support team.

Failover support for Fibre Channel connections (FB-28865)

— Already available in version 2.57 —

With this update, we are implementing the failover functionality when using a Fibre Channel infrastructure. This requires two controllers that administer the connected Silent Brick Max as a redundant pair. The Fibre Channel network can thus be controlled redundantly via the newly introduced parent port.
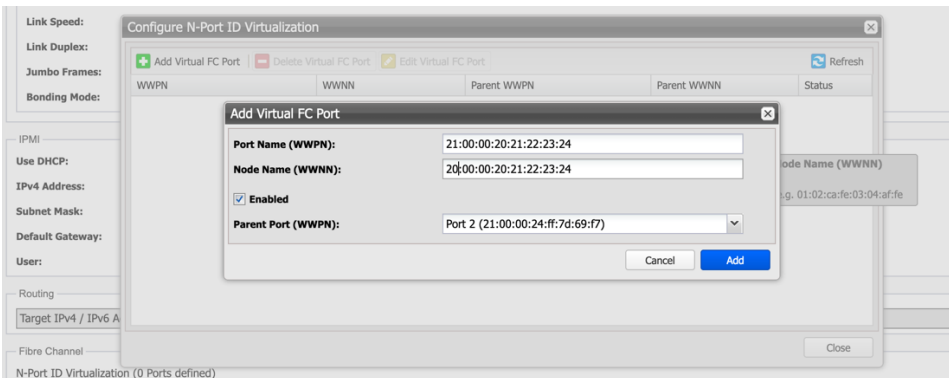
Further enhancements

Names & terms in the user interface

— Already available in version 2.57 —

Many terms in the user interface have been adapted to the current naming and the changes in the Silent Bricks product portfolio have been updated:

- The new **Silent Brick Plus** is ideal as a first backup target. As an all-flash medium, it offers maximum performance.
- The **Silent Brick Max** (formerly Silent Brick DS) offers up to 240 TB (gross) as stationary storage on one U.
- The **Silent Brick Air** (formerly Silent Brick) is a low-cost, transportable storage medium that enables physical air gaps.

More informationen at **https://www.fast-lta.de/en/products/silent-brick**

Contact technical support

Mo-Fr, on workdays 9am – 5pm:

Via phone at **+49 (89) 890 47 – 772**

Via e-mail to **lta-support@fast-lta.de**

Documentation

The manual can be accessed online at:

https://fastlta.com/en-sb-manual

Details on the updated S3 support

Important: The following information only applies to users who use S3 shares. If you have not created any S3 shares in your configuration, the following information does not apply to you.

Summary

Existing S3 shares may no longer be compatible with the new version. A distinction must be made between S3 shares with and without object locking:

- Existing S3 shares with support for object locking (regardless of whether object locking is actually used) can still be used, but will not benefit from the improvements.
- Existing S3 shares without support for object locking can no longer be accessed via the S3 API after the changeover and must be reconfigured manually.
- New S3 shares can be operated both with and without object locking and benefit from the higher performance.
- We recommend the flash-based Silent Brick Plus for S3 shares.

S3 shares with support for object locking

The previous S3 shares with support for object locking (regardless of whether object locking was actually activated or not) will continue to function as usual after the update to software version 2.57, both read and write access. However, as S3 shares with Object Locking activated are generally protected against premature deletion for a retention period, migration to new S3 shares with Object Locking activated is not possible without further ado:

If you migrate data from previous S3 shares with object locking to new S3 shares with object locking on the same volume, you will often end up with duplicate data, as old S3 shares cannot be deleted prematurely due to the retention setting.

There are therefore two ways to benefit from the advantages of the new S3 shares with object locking:

- **Recommendation:** Create a new volume (on a new Silent Brick, we recommend the Silent Brick Plus) with a new S3 share with object locking, migrate the existing data including retention to the new share and then delete the entire old volume with the previous share.
  Advantage: After the migration, everything is as before, plus higher performance and less storage space consumption.
  Disadvantage: Migration necessary; requires second volume / second Silent Brick
- You create a new S3 share on the same volume and use it exclusively for new data. All previous data remains on the existing S3 share with object locking in read access. This data can then be deleted once the respective retention period has expired.
  Advantage: No migration necessary; requires only one volume / Silent Brick
  Disadvantage: Two shares required; volume may only be a maximum of 40% occupied; existing data does not benefit from the improvements

If you decide to migrate the existing data (option 2), you will need a suitable tool, e.g. the Command Line Client from MinIO or a comparable S3 client.

A detailed guide fort hat can be found at **https://fastlta.com/4bO6pqo**

Note: If object locking has not been activated for all buckets created on a share with support for object locking (and therefore no retention has been set), you can simply delete the previous share after the migration.

S3-Shares without support for Object Locking

Due to the changeover, S3 shares without support for object locking are no longer available via the S3 interface after the update. However, the update process supports you in creating an SMB share that contains all buckets and data. This means that the data can still be accessed after the update. The old S3 share is automatically converted to a new S3 share, but does not contain any data.

To be able to access the data via S3 again after the update, it must then be copied back from the SMB share. The easiest way to do this is via an S3 tool, e.g. the Command Line Client from MinIO or a comparable S3 client.

A detailed guide fort hat can be found at **https://fastlta.com/3R9EJUW**

If you have any questions, please contact our technical support team **before updating**.