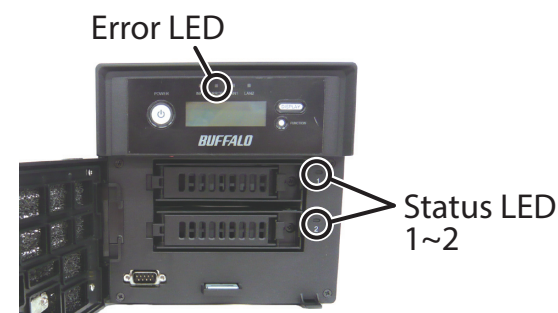


# Hard Drive Replacement Procedure

## Drive Failures

If a drive in the TeraStation fails, the error LED will glow red. Open the front cover and check the status LEDs. The malfunctioning drive's status LED will be glowing red. This drive may be hot-swapped. Replace with a Buffalo OP-HD series drive of the same size.

- **Only failed drives may be hot-swapped. If you need to remove a drive that has not failed and whose status LED is not glowing red, either shut down the TeraStation, or dismount the drive in Dashboard. Once the TeraStation is shut down, or the drive is dismounted, then it is safe to replace the drive.**
- If the TeraStation is off, drives may be replaced without dismounting them first.
- Installing or removing a hard drive while the system is still running is referred to as a hot-swap.



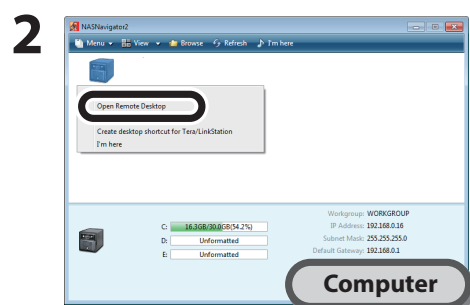
with cover opened

## Hard Drive Replacement Examples

- The TeraStation is fragile. Handle it with care. Do not drop or bump the TeraStation.
- Use caution when handling the unit in order to avoid personal injury.
- Never disassemble any parts while you are replacing a hard drive unless instructed to do so in this manual. Any malfunction or damage caused by disassembling the TeraStation will void your warranty.
- To avoid damaging the TeraStation with static electricity, ground yourself by touching something made of metal before handling any sensitive electronic parts.
- Replacement drives should be Buffalo OP-HD drives of the same capacity as the originals. These drives are available from [www.buffalotech.com](http://www.buffalotech.com).
- Do not use any hard drive that has been used in another TeraStation or LinkStation, or another computer as a replacement drive. If you do, data on the unit may be damaged or lost.
- Do not change the order of the hard drives in the TeraStation. For example, pulling out drive 1 and replacing it with drive 2 may cause data to be corrupted or lost.
- In a RAID 1 configuration, the boot drive (C:) consists of the first and second hard drives from the top. Do not replace both of these hard drives at the same time.
- If a hard drive is replaced while saving a file, the file can be corrupted. Be sure that the saving operation is completed before replacing the hard drive.

**If the TeraStation is on, begin from step 1. If the TeraStation is off, begin from step 7 on the back side.**

- 1 Open NAS Navigator2.
  - In Windows, double-click the Buffalo NAS Navigator2 icon on the Desktop.
  - In Mac OS, click NAS Navigator2 icon in the Dock.



Right-click the TeraStation icon (in Mac OS, click while holding down the Control key), then select *Open Remote Desktop*.




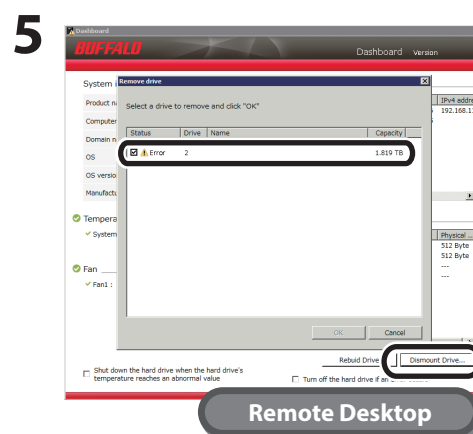
Enter the username and password, then click *OK*.

The default settings are:

**Username: Administrator**  
**Password: password**

**Windows Storage Server will open in a Remote Desktop window.**

- 4 In Windows Storage Server, double-click the  icon in the system tray to launch Dashboard.



Select *Dismount Drive*, then select the hard drive to be removed and click *OK*.

The failed drive will have a status of "Error" and its status LED will be glowing a steady red.

In this example, drive 2 has failed.

- 6 When the message "Removal of the drive completed." is displayed, click *OK*.

**>> Turn over this sheet to continue**

# Hard Drive Replacement Examples

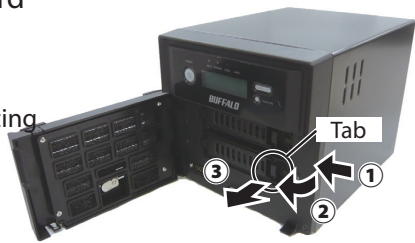
>>Continued from front page

7 Open the front cover with the included key.



8 Push the locking tab of the failed hard drive to the left and swing the lock around to the left.

The photo here shows an example of replacing drive 2.



9 Pull out the hard drive cartridge and remove it from the TeraStation.



10 Insert the OP-HD series hard drive into the empty slot from Step 9.

Slide the drive in with the locking mechanism open.



11 Slide the drive into the TeraStation, then swing the lock back down until it clicks into place.



12 Replace the front cover.

If the hard drive was replaced while the TeraStation power was turned off, press the power button on the TeraStation to turn on the power and launch Dashboard.

13

Status	Drive	Name	Capacity
Normal	1		1.819 TB
Getting...	2		1.819 TB

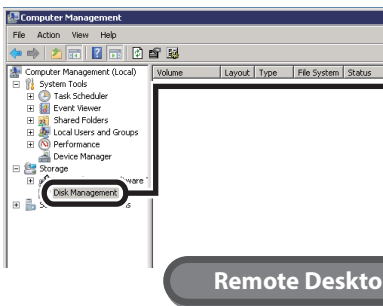
In Dashboard, the status of the replacement drive will be "Getting..."

14 When the drive is detected on the TeraStation, the status will change to "Normal".

**Note:** If the status hasn't changed to "Normal" after 5 minutes, click *Rebuild Drive* to refresh the drive information.

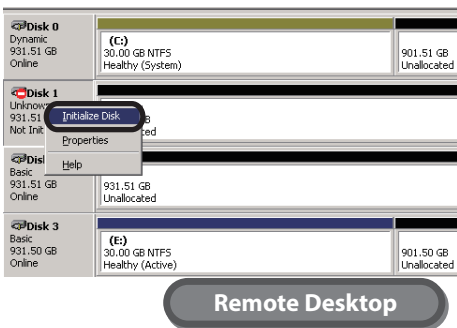
15 In Windows Storage Server, navigate to *Start - All Programs - Administrative Tools - Computer Management*.

16



Click *Disk Management*.

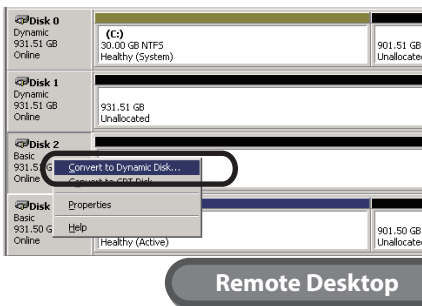
17



Right-click the new drive and select *Initialize Disk*.

Follow the on-screen instructions to initialize the drive.

18



Right-click the initialized hard drive and select *Convert to Dynamic Disk*.

A RAID array cannot be built unless the hard drive is converted to a dynamic disk.

Follow the instructions on the screen to convert to a dynamic disk.

19 Choose one of the processes below.

**To create a new volume:**

- (1) Right-click the new dynamic disk and select *New Volume*.
- (2) Follow the instructions on the screen to create a new volume.

**To restore a mirrored volume (RAID resynchronization):**

- (1) Right-click the volume labeled "Failed Redundancy" in Disk Management and click *Remove Mirror*.
- (2) Select the drive to remove (it will be labeled "Missing") and click *Remove Mirror*.  
**Note:** Perform steps (1) and (2) for each volume that requires RAID resynchronization.
- (3) Select a volume for mirroring in Disk Management and select *Add Mirror*.
- (4) In the "Add Mirror" dialog, select the drive for mirroring and click *Add Mirror*.

You have now completed the hard drive replacement process.