Quantum Scalar LTFS Appliance: Hard Drive Replacement

The Scalar Linear Tape File System (LTFS) Appliance contains hard drives that are in a RAID 1 configuration. All drives connect to the system board through the SAS backplane board. Hard drives are supplied in hot-swappable drive carriers that fit in the hard drive bays.

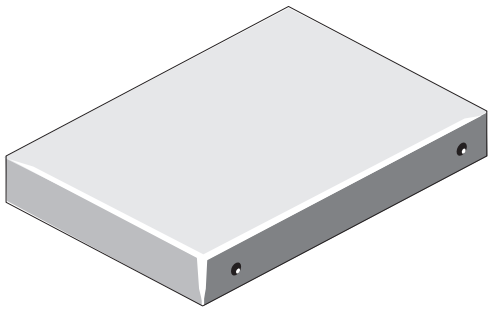
To replace a hard drive in the Scalar FTFS Appliance, refer to the following sections:

6-68092-01 Rev A, December 2013

Preparing to Replace a Hard Drive

Before beginning the replacement procedure, make sure that you have the required replacement kit (see Table 1 on page 2).

Table 1 Scalar LTFS Appliance Hard Drive Replacement Kit

Qty	Illustration	Description
1		Replacement hard drive

Required Tools:

#1 PHILLIPS screw drive

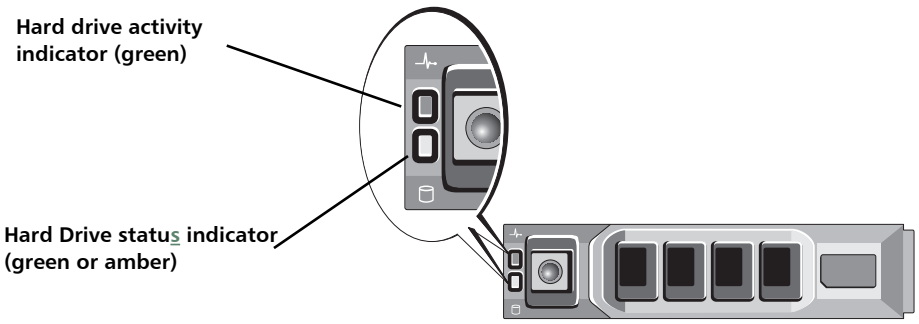
Removing a Hard Drive

To remove the failed hard drive, complete the following steps:

1. Wait until the indicators on the hard drive carrier signal that the hard drive can be removed safely (see Figure 1 on page 3). If a hard drive is online, the green activity indicator flashes as the drive is turned off. When a hard drive LEDs are off, the hard drive is ready for removal.

   The hard drive LED indicators show the current status of each drive. An amber or OFF LED indicates a failed hard drive.

Figure 1 Hard Drive LED Indicators



2 If the bezel is installed, remove it:

- **a** Unlock the key lock at the left end of the bezel (see Figure 2).
- **b** Lift the release latch next to the key lock.
- **c** Rotate the left end of the bezel away from the front panel.
- **d** Unhook the right end of the bezel and pull the bezel away from the chassis of the top Scalar LTFS Appliance.

Figure 3 shows the Front of the Scalar LTFS after the bezel is removed.

Figure 2 The Front Bezel

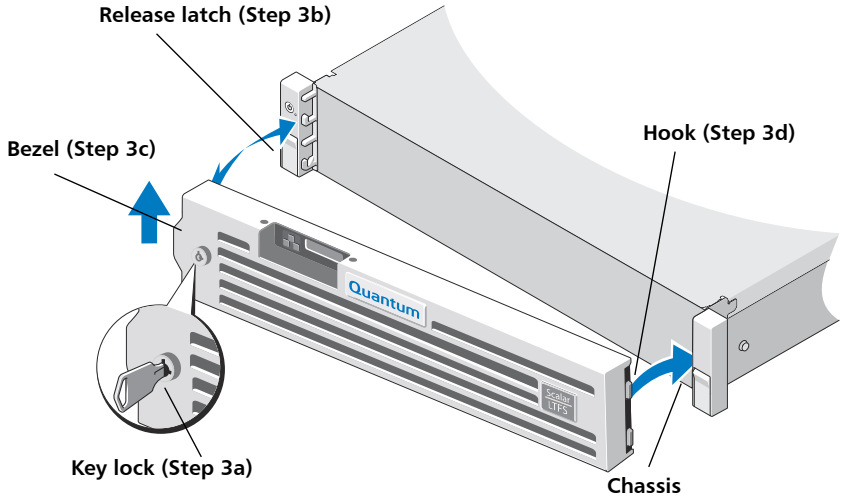
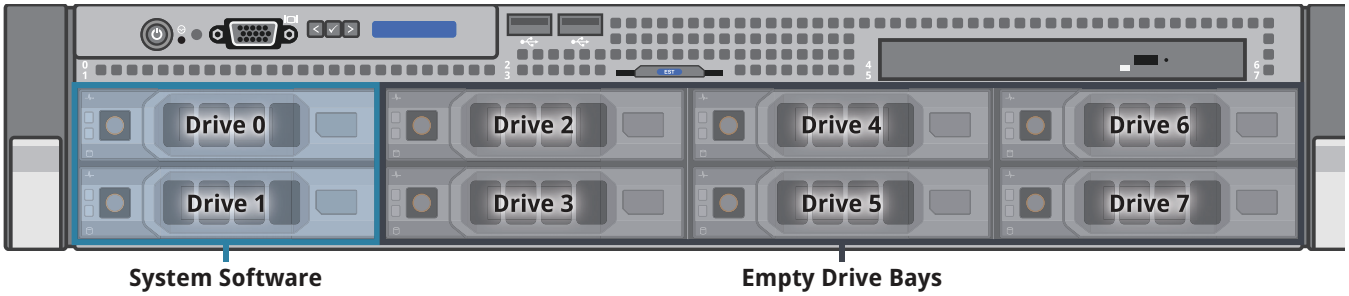
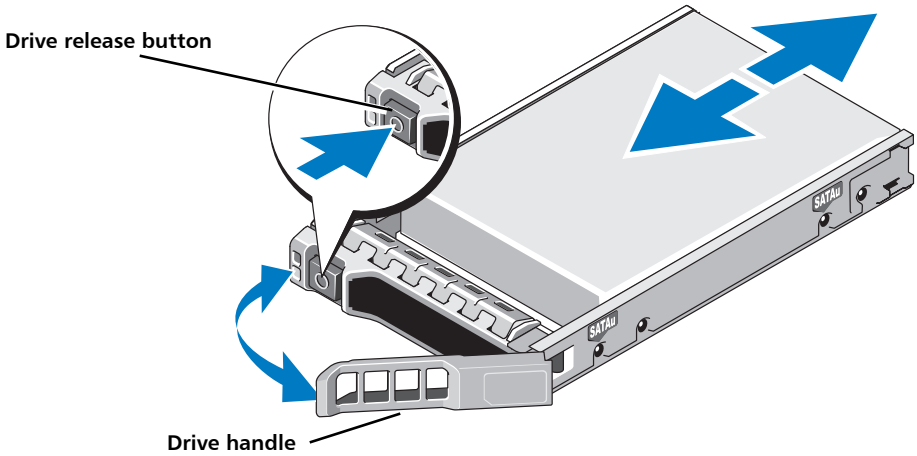


Figure 3 Front of the Scalar LTFS



3 Push the drive release button and open the carrier handle to release the drive (see Figure 4).

Figure 4 Removing the Scalar LTFS Appliance Hard Drive From the Carrier

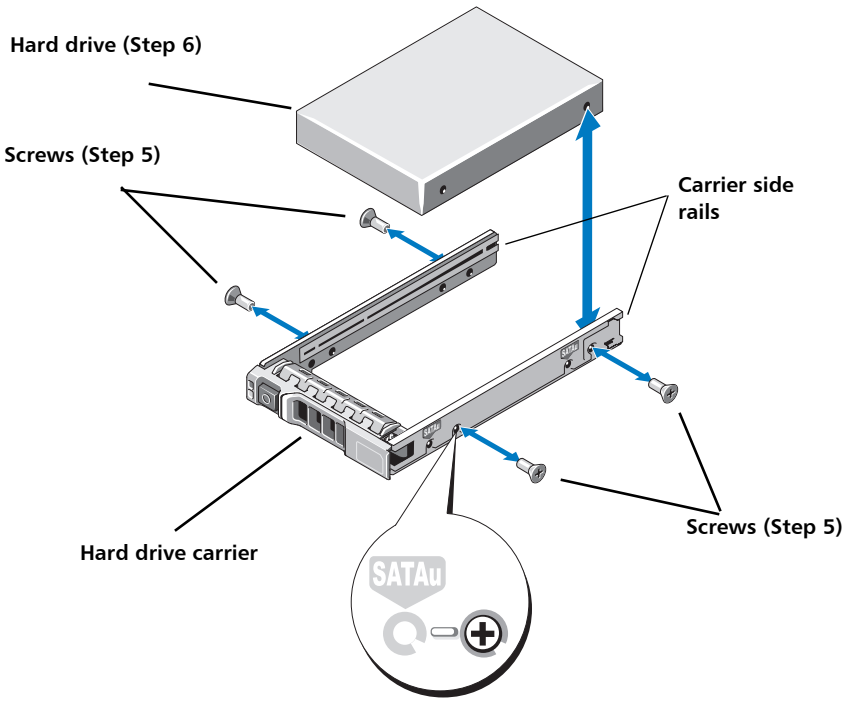


4 Remove the screws from the slide rails on the carrier (see Figure 5).

Retain these four screws; you will need them to reassemble the hard drive into the replacement carrier.

5 Lift the hard drive out of the carrier (see Figure 5).

Figure 5 Hard Drive and Hard Drive Carrier



Replacing a Hard Drive

To replace the hard drive, complete the following steps:

1. Insert the hard drive replacement into the carrier with the connector end of the hard drive toward the back.
2. Align the screw holes on the hard drive with the back set of holes (SAS) on the hard drive carrier.

   Note: When aligned correctly, the back of the hard drive is flush with the back of the carrier.

3. Secure the carrier to the hard drive with the four screws you removed previously.
4. Insert the carrier into the empty slot until it connects with the backplane.
5. Close the hard drive carrier handle to lock the hard drive in place.

   When a replacement hot-swappable hard drive is installed, the hard drive automatically begins to rebuild. A slowly blinking green Status LED indicates the drive is rebuilding. A steady green Status LED indicates the drive is online.

Caution: Do not turn off or reboot the Scalar LTFS Appliance while the hard drive is being rebuilt. Doing so can cause a hard drive failure. When you rebuild a raid set, allow enough time for the formatting to be completed. Be aware that high-capacity hard drives can take a number of hours to format.

6 Replace the front bezel.

   a Hook the right end of the bezel onto the chassis of the top Scalar LTFS Appliance.

   b Fit the free end of the bezel onto the chassis.

   c Secure the bezel with the key lock.