Technical Note



Replacing the NV9000 SSD

Introduction

You cannot access the data on the SSD for any reason. It is not recognized in disk manager. There is no drive letter associated with it and you cannot read any data from the drive.

This procedure replaces the SSD (solid-state drive) in an NV9000 FR0040-10 frame.

See TN0013 SSD Refresh for an alternative procedure for when you can access data on the SSD, but it boots improperly.

Procedure

Follow these steps to replace the SSD:

- 1 If the controller is running, power down and disconnect the controller from power. Wait 30 seconds.
- 2 Remove and replace the SSD in the top drive tray.

Use the same tray because it has the existing Windows XP Embedded license sticker. The SSD attaches with 3 screws through the bottom of the tray:



3 Plug in the power cords. Restart the controller. Because the SSD is still uninitialized, the controller will automatically boot from the HDD (in the lower drive bay).

4 Initialize SSD with the disk manager. Because the SSD is still uninitialized, the disk manager will start the initialization automatically:



Click 'Next' and proceed through the pages, using default settings. Close the disk manager.

5 Double-click the DriveImager icon on the desktop.

	🐥 Flash Media Imaging and Formatting Utilities		
	💕 Tools 👩 Log 😴 Help		
	Available Drives		
)	Display Removable Drives Only		
	Physical Drive 0 (3.679 GiB) (SanDisk SSD SATA 5000 2.5)	Format FAT16 Bootable	Write Image to Drive
jer	└── D\\ ── 3.641 GiB ── Fixed ── NTFS ──	Extract Zin	Create Drive Image File
	Physical Drive 1 (232.886 GiB) (ST3250820NS) C1 = 10.004 CiB = Fixed = NTES =		
		Ann Bootprep	Write XP MBR
	Physical Drive 2 (0.957 GiB) (Flash Drive SK_USB20 USB Device)	Check Files Integrity	
	└─ F\\ ─ 0.957 GiB ─ Fixed ─ FAT ─	Format to NTES	
	9:07 AM: (Finished writing image to drive, please unplug card) (Physical Drive U (3.679 G	àiB) (SanDisk SSD SATA 5000 2.5))	Writing Image to Drive
	9:04 AM: (Writing Image to Drive) (Physical Drive 0 (3:679 GiB) (SanDisk SSD SATA 5000 2:5)) Started writing image from file:		
	"E:\EmbeddedXP\Secondary\Drive_C_WINXP-EMB-SP2_Secondary_Resealed_SSD_3728_2D.rvbin"		
	9:04 AM: (Writing Image to Drive) (Physical Drive 0 (3:679 GiB) (SanDisk SSD SATA 5000 2:5)) Image file OK		
	storam, (writing image to only) (mysteal prive of stora dib) (sanDask set) as Ara Sould 25D (started checking image line. E\LembeddedXYSsecondaryADrive C WIXXPEMBSP2 Secondary Resealed SSD 3728 20.nvbin		
	2:34 PM: (Finished writing image to drive, please unplug card) (Physical Drive 0 (3.828 GiB) (SILICONSYSTEMS SATA 4GB-4000)) Writing Image		
	Chaosa physical drive 0. Click 'Write image to drive'	then aligh 'Next' and	calact the most

Choose physical drive 0. Click 'Write image to drive', then click 'Next' and select the most recent backup file in the E:\System Backup folder. Click 'Next' to proceed with the image restore.

When the restore is complete, close DriveImager.

- 6 Restart the controller and login.
- 7 Load the client's NV9000 configurations and reset any unique client settings on the controller and reboot.
- 8 Verify proper operation.

