

Replacing the NV9000 HDD

Introduction

This procedure replaces the HDD (hard-disk drive) in an NV9000 FR0040-10 frame.

This process assumes that you cannot access the data on the HDD for any reason. The HDD is not recognized in the disk manager; there is no drive letter associated with it; and you cannot read any data from the drive.

Procedure

Follow these steps to replace the HDD:

- 1 Power down and disconnect the controller from power. Wait 30 seconds.
- 2 Remove and replace the HDD from the bottom drive tray at the front of the controller.
- 3 Reconnect power, restart the controller, and log in.
- 4 Initialize the HDD using the disk manager. Because the HDD 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 Insert a formatted USB drive into the running controller. The USB drive must have the HDD setup files on it.

You can obtain the relevant files from Miranda's FTP site. The name of the folder is **TBD**. See the listing at the end of this note for details. The files total about 400 MB in size. You should place these files in a folder called `Drive_D_hdd_setup_thumb_drive` on the USB drive.

Change the drive letter to 'X'.

- 6 Run `mbrfix` in a command prompt window to put a master boot record on the new HDD.
- 7 Browse to `HDD_image.bat` on the USB drive. Double-click it to run it.

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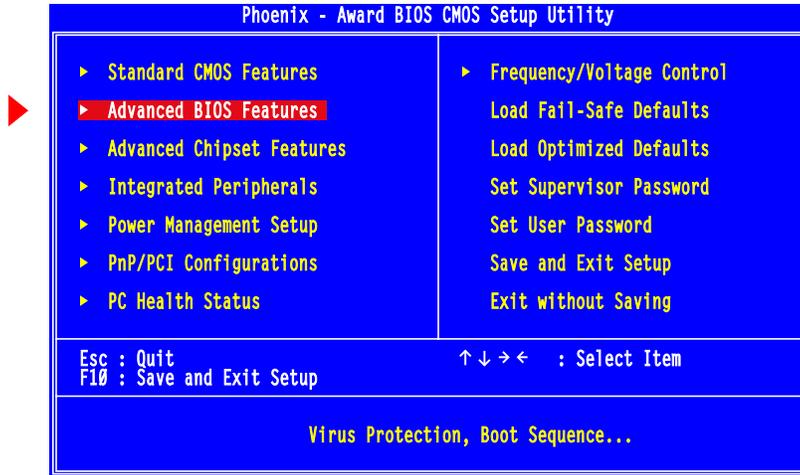
Observe the progress in the command prompt window. When the process is finished, the command prompt window will close.

Then run dixml to restore the D:\ partition with HDD_BOOT_DRIVE_IMAGE which is on the USB drive.

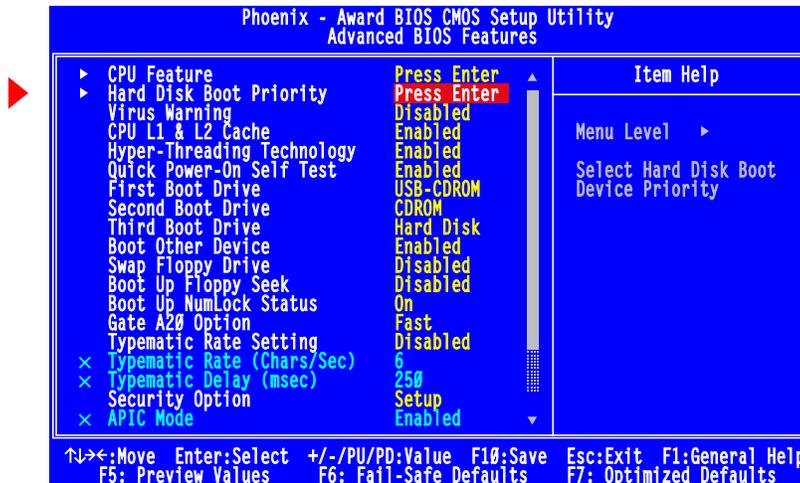
When done, close all open windows.

8 Verify that you have two partitions, D: and E: on the new HDD.

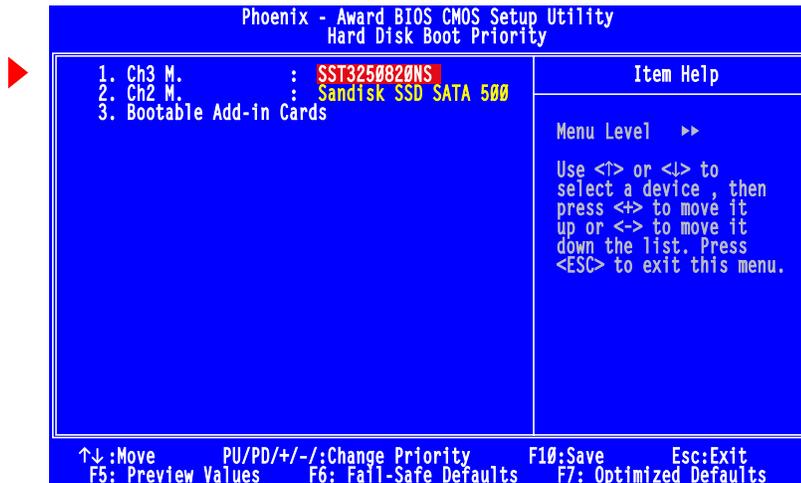
9 Restart the controller, holding the 'Del' key during the initial bootup. The "CMOS Setup" page appears after a few seconds:



1 Using the arrow keys, choose "Advanced BIOS Features"



2 Choose 'Hard Disk Boot Priority' and press the 'Enter' key. The priority list appears:



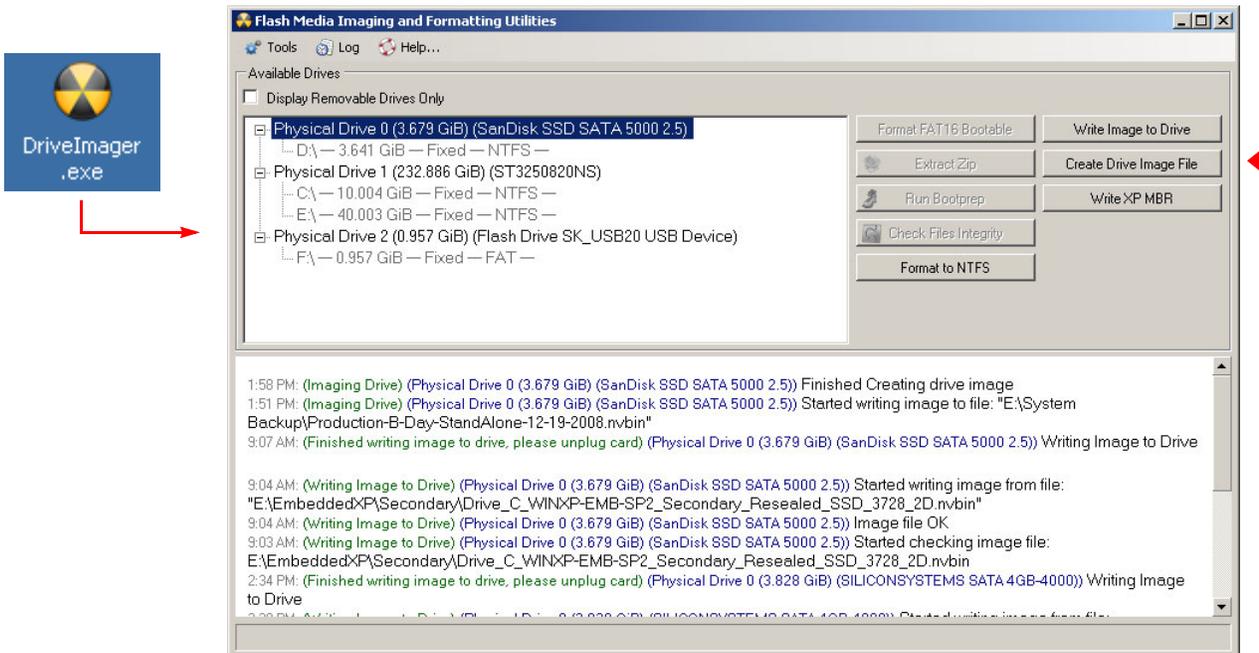
3 Follow the directions on the screen to place the HDD first.

10 Restart the controller and login.

11 Backup the client's SSD to the E: drive using *DriveImager* (on the desktop).

Follow these steps:

1 Double-click *DriveImager.exe* to launch it:



2 Click 'Create Drive Image File'. A 'Save' dialog appears in which you may name the backup image file. The directory is E:\System Backup. You should not select a different directory.

Name the backup you create: Use one of these names, as appropriate:

- HDD REPLACEMENT STANDALONE-*mm-dd-yyyy*
- HDD REPLACEMENT PRIMARY-*mm-dd-yyyy*
- HDD REPLACEMENT SECONDARY-*mm-dd-yyyy*

where *mm*, *dd*, and *yyyy* are the month, day, and year of the backup.

After a few minutes, the backup completes and you will see a completion message.

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- 12 When the backup in step 11 is complete, restart the controller, holding the 'Del' key to access CMOS Setup. Set the boot priority (as in step 9) so that the SSD is first in the list. The controller will thereafter boot from the SSD.
- 13 Restart the controller. Run comptmgmt (on the desktop). Examine the event logs in to verify that the system is without errors and that the 'D:\nvision' folder exists.

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