

## ReadMe—Adding HDDs to Support Fiery Central

This document describes the Flow option kit and how to install it on the Fiery Central server.

To install the Fiery Central Flow module, perform the following tasks, which are described in this document:

- Install two additional hard disk drives (HDDs) and cables into the computer (see page 2).
- Configure the computer BIOS to accept the additional HDDs (see page 4).
- Configure the Windows XP operating system to use the additional HDDs (see page 5).
- Restore the Windows XP operating system software (see page 6).
- Install and configure Fiery Central to take advantage of the additional HDDs (see page 6).

**NOTE:** This document uses the term “computer” to refer to the Fiery Central server, which is a Dell Precision Workstation 690.

To perform this upgrade, refer not only to this document but also to the documentation provided online by Dell, Inc., the manufacturer of the Precision Workstation 690 computer. Make sure to refer to the Dell documentation for complete information on accessing the internal hardware, installing hard disk drives and cables, and on all recommended safety measures.

In addition to this document, the Flow option kit includes:

- Hard disk drive (HDD), SATA (2)
- HDD data cable, SATA (2)—if one end of the cable has a right-angled connector, use the right-angled connector to connect to the HDD, not to the motherboard
- Dongle—give to the site administrator for installing the Fiery Central Flow module
- License code sheet—contains the license key needed for activating the Fiery Central Flow module

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**TO ADD TWO HDDS TO THE COMPUTER**



**CAUTION:** Wear an electrostatic discharge (ESD) grounding wrist strap and follow standard ESD precautions while performing this procedure. For details, see the documentation that accompanies the Dell Precision Workstation 690.



Follow the detailed procedures in the Dell online documentation for the Dell Precision Workstation 690 when you access and remove components.

**1. Using the detailed instructions available online from Dell, the manufacturer of the computer:**

- Remove the right side panel of the computer and access the hard disk drive bays.

**NOTE:** For connector/bay labels and locations, see Figure A on page 3 of this document.

- Unplug the power cable and data cable from HDD\_0. Do not disconnect the data cable from the motherboard.
- Remove the empty HDD carriers from the bays labeled HDD\_1 and HDD\_2
- Snap the HDDs (provided in this kit) into the empty carriers.
- Insert the carriers back into the bays labeled HDD\_1 and HDD\_2.
- HDD\_0: Re-connect the SATA power cable and SATA data cable to the HDD.
- HDD\_1: Connect a SATA data cable (provided in this kit) to the:
  - SATA data connector on the HDD
  - Motherboard SATA connector labeled HDD\_1.

Do not connect to the motherboard connector labeled SATA\_1.

Use the same routing clip that is used for HDD\_0.

- HDD\_2: Connect a SATA data cable (provided in this kit) to the:
  - SATA data connector on the HDD
  - Motherboard SATA connector labeled HDD\_2.

Do not connect to the motherboard connector labeled SATA\_2.

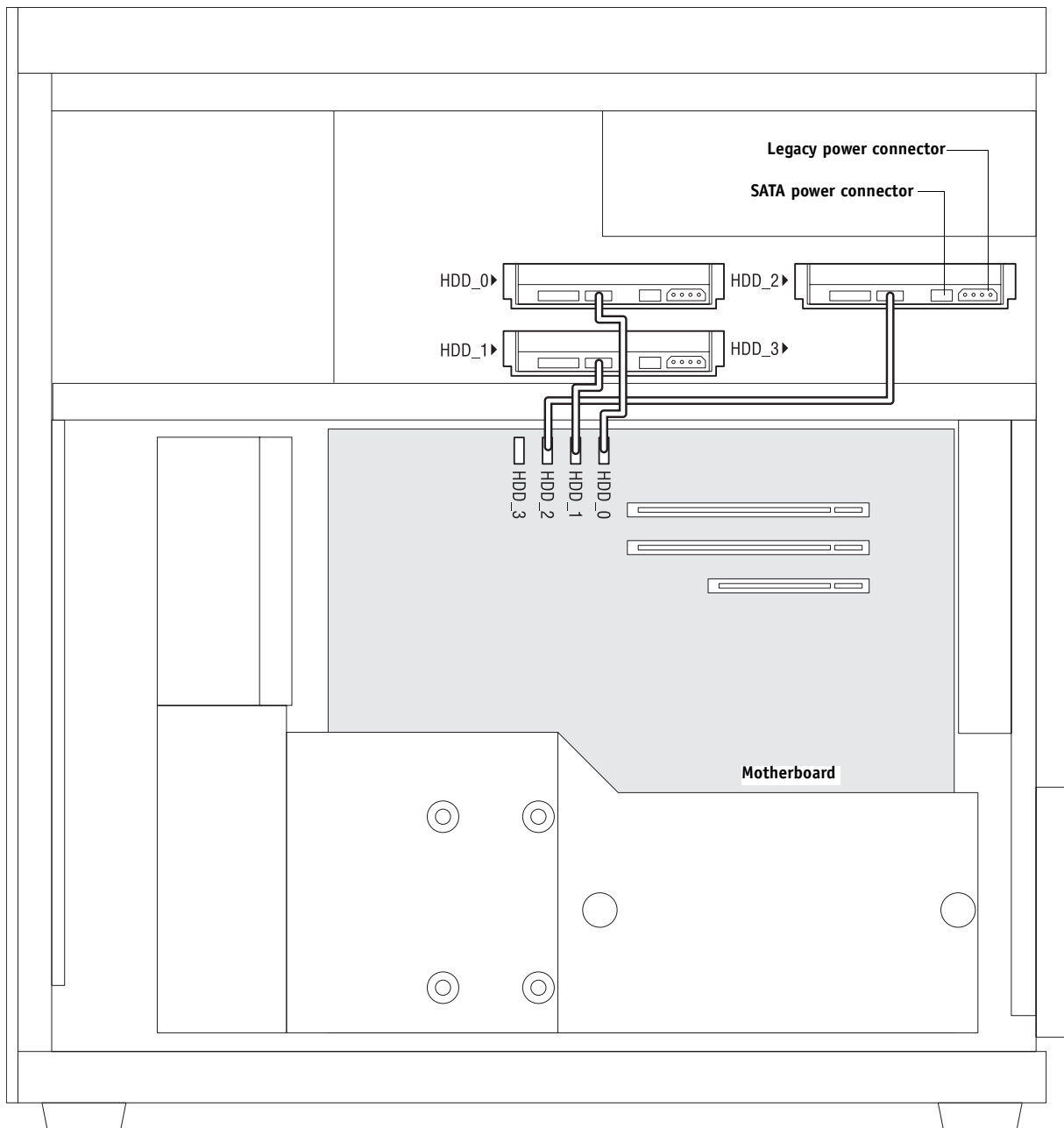
**2. Connect the computer's power supply to the HDDs in the bays labeled HDD\_1 and HDD\_2.**

**NOTE:** The HDD has two types of power connectors. Do not use the legacy power connector; use only the SATA power connector (see Figure A on page 3).

Choose the cable connector from the computer's power supply wiring harness that reaches the HDD most easily.

**3. Re-install the right panel on the computer and make sure to reassemble the computer completely.**

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**FIGURE A** HDD connections inside the computer

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**TO CONFIGURE THE MOTHERBOARD BIOS**

This procedure assumes two HDDs have been added to the computer, in bays labeled HDD\_1 and HDD\_2.

1. **Power on the system and enter Setup by pressing F2 while the computer is booting up.**

If the system boots to Windows, try again.

2. **In Setup, press the Down arrow to select Drives and press Enter.**

The Drives menu is expanded to show the options and settings related to drives and hard drive controllers.

3. **Verify the BIOS settings for hard disk drives:**

SAS Controller	On
Diskette Drive	Internal
Drive 0: SATA-0	Off
Drive 1: SATA-1	Off
Drive 2: SATA-2	Off
Drive 3: PATA-0	On
Drive 4: PATA-1	Off
SATA Operation	AHCI

Use the Up and Down arrows to select a BIOS setting and press Enter to make changes to it.

4. **Press Esc to exit Setup.**

5. **Select Exit to confirm that you wish to exit Setup.**

After you exit Setup, the Windows system restarts automatically.

6. **Log on to the computer with an administrative account.**

7. **Restart the computer and press Ctrl-C while the computer is restarting to invoke the SAS Configuration Utility.**

To restart, go to Windows Start menu > Shut Down > Restart.

8. **In SAS configuration to Configure the RAID, make the following selections:**

- Select SAS Adapter — press Enter

**NOTE:** Even though the HDDs are ATA not SAS, the SAS adapter is the correct selection.

- Select Adapter Properties — press Enter
- Select RAID Properties — press Enter
- Select Create IS Volume — press Enter
- Select Disk 1 and 2 — change the value to Yes

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- Press C to create new volume
  - Select Save changes and exit
9. **Select F3 to confirm.**
  10. **Press Esc twice and exit by selecting the Exit the Configuration Utility and Reboot option.**

Now you are ready to configure Windows for using the new hardware.

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### TO CONFIGURE WINDOWS TO USE THE NEW HARDWARE

1. **Log on to the computer with an administrative account.**
2. **Make sure the system is Idle.**
3. **From the Windows Start menu, right-click My Computer and select: Manage > Storage > Disk Management. Double-click Disk 1.**
4. **At Welcome to the Initialize and Convert Disk Wizard, click Next.**  
**NOTE:** This screen does not display if Disk 1 is already initialized.
5. **At Select Disks to Initialize, select Disk 1 and click Next.**
6. **At Select Disks to Convert, select Disk 1 and click Next.**
7. **At Completing the Initialize and Convert Disk Wizard, click Finish.**
8. **At the Computer Management > Disk Management screen, right-click Disk 1 (which is displayed as unallocated) and select Create New Volume.**
9. **At Welcome to the New Volume Wizard, click Next.**
10. **At Select Volume Type, select Simple and click Next.**
11. **At Select Disks, select Disk 1 and click Add. Click Next.**
12. **At Assign Drive Letter or Path, select Assign the following drive letter: G. Click Next.**  
The box for drive letter will show the appropriate drive letter which may or may not be G.
13. **At Format Volume, select Format this volume with the following settings. Choose the following settings then click Next:**
  - File system—NTFS
  - Allocation unit size—Default
  - Volume label—Fiery Central

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Do not select:

- Perform a quick format
- Enable file and folder compression.

14. **At Completing the New Volume Wizard, click Finish.**
15. **At the Computer Management > Disk Management screen, make sure Disk 1 is now displayed as Online and Healthy.**

Now you are ready to either install system software using the disks provided by Dell or to restore system software using the Fiery Central Dell 690 Recovery DVD provided by EFI with the system.

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### TO RESTORE SYSTEM SOFTWARE

- **Use the Fiery Central Dell 690 Recovery DVD.**

This disk is provided with the system. Insert the DVD into the system and follow the prompts. The process takes about 15 minutes.

Now the site administrator must install and configure Fiery Central and the Flow module.

To install Fiery Central Server software, the site administrator needs a dongle and license key for both Fiery Central and the Flow module. The Fiery Central dongle and license key accompany the Fiery Central software. The Flow dongle and license key are provided in this upgrade kit.

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### TO INSTALL AND CONFIGURE FIERY CENTRAL SERVER SOFTWARE AND THE FLOW MODULE

- **Insert the Fiery Central User Software DVD into the DVD drive of the computer and follow the prompts.**

Verify that the Fiery Central and Flow check boxes are selected in the Select Components dialog box.

For information about installing the Fiery Central software, see the *EFI Fiery Central User Guide*, specifically the chapter entitled *Installing Fiery Central Server Software*.

**NOTE:** The User Guide is located in the Documentation folder on the Fiery Central User Software DVD.