**hp** StorageWorks

### Network Storage Router e1200-160







**Caution:** Parts can be damaged by electrostatic discharge. Keep parts in their containers until needed. Ensure you are properly grounded when touching static-sensitive components.

**Caution:** This part is not hot-pluggable. Power down the library before replacing this part.



**Note:** Depending on the model, your library may look different from those illustrated in this procedure.





9. SCSI VHDCI connector (2)







Remove the SCSI interface cable, the SCSI terminator, and if present, the Ethernet cable and the RS-232 cable.



6 Carefully insert the router into the upper and lower guide rails of the appropriate option slot with the SCSI connectors downward. Resistance will be felt when the router begins to connect with the library backplane. Apply only enough force to seat the router snuggly; ensure proper connection by rotating the ejector handles inward.







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## Configuration

Refer to the HP StorageWorks Network Storage Router User Guide for detailed procedures on configuring the router.



**Note:** If this router replaced a faulty router, restore the old router's configuration settings using the FTP User Interface [ftp -> login -> bin -> put pathfilename.cfg].

#### For All Configurations:

- Cable the serial interface and use your host application to communicate over the serial bus. [Defaults: 115200 Bits per second, 8 Data bits, No Parity, 1 Stop bit, and Xon/Xoff Flow Control]
- Use the serial user interface to set the Ethernet configurations (DHCP, IP address, Subnet, and Gateway). [Perform Configuration -> Ethernet and SNMP Configuration]
- **3.** Save Configuration. [Perform Configuration -> Ethernet and SNMP Configuration]
- 4. Reboot the router. [Main Menu]
- 5. Write down the router's IP address [Perform Configuration -> Ethernet and SNMP Configuration]
- 6. Enter the Visual User Interface by opening your web browser and entering the router's IP address. [Defaults: Logon-root Password-password]
- 7. Set the Real-Time Clock. [System -> Real-Time Clock]
- Set the Fibre Channel port Performance Mode (1GB or 2GB, depending on the hardware to which the router is connected). The router is not auto-switching. [Ports -> FC Port]
- **9.** Assign **Port 0 Device Map** to the hosts that need to communicate with the library. [Mapping]
- **10.** Select **Port 0 Device Map** and click **Edit/View**. *[Mapping]*

- 11. Set the Fill Map Priority to Bus/Target and Fill Map. [Mapping -> Select Map -> Edit/View]
- For SCSI Ultra 3 drives (for example Ultrium 460), configure only 1 drive per SCSI bus.
  For SCSI Ultra 2 drives (for example SDLT 220, SDLT 320, Ultrium 230 and all DLT drives) configure a maximum of 2 drives per SCSI bus. [Mapping -> Select Map -> Edit/View]
- 13. Active Fabric (AF) should be the last LUN used on the map. Do not move AF to map LUN 0 (Device specific LUN=0 is normal) [Mapping -> Select Map -> Edit/View]
- **14. Remove Gaps** in the LUN sequence. [Mapping -> Select Map -> Edit/View]
- 15. Reboot the router [Reboot]

#### Additional Steps for Direct Connect (Point to Point) Configurations:

- 1. Set Port Mode to Auto Sense. [Ports -> FC Port]
- 2. Set Hard AL\_PA to Enable. [Ports -> FC Port]
- Click Set AL\_PA to select any available AL\_PA. The only remaining AL\_PA should be the host bus adapter (HBA). Using a high number will avoid potential conflicts. [Ports -> FC Port]
- 4. **Reboot** the router [Reboot]

### **Getting Help**

- HP Product Information: http://www.hp.com/products/tapestorage
- HP Technical Support and Phone Numbers: http://www.hp.com/support
- HP StorageWorks Library and Tape Tools (L&TT) diagnostic software: http://www.hp.com/support/tapetools



**Note:** Use L&TT to verify installations and to ensure your library has the latest firmware.

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