Compaq StorageWorks

SAN Switch 8 Release Notes

These release notes contain late-breaking and supplemental information for the Compaq StorageWorks SAN Switch 8.

Be sure to read these notes before installing the Compaq StorageWorks SAN Switch 8. This information is periodically updated and available on the World Wide Web at URL:

www.compaq.com/products/storageworks/

Firmware Version 2.03a

The SAN Switch 8 includes the latest version of the firmware. A copy of the latest version of the firmware, v2.0.3a as of this date, is also contained on the Compaq StorageWorks SAN Switch Software CD. Instructions for downloading the firmware and the required loaders are also contained on the CD. This firmware is for the Compaq StorageWorks SAN Switch only and will not work if loaded into older Compaq StorageWorks Fibre Channel Storage Switches.

Compatibility

The Compaq StorageWorks SAN Switch software (version 2.0 and above) is compatible with the Compaq StorageWorks Fibre Channel Switch software (Version 1.6c or 1.6d), allowing both types of switches to operate in the same fabric. To accomplish this compatibility, the SAN Switch 8 must be configured to use a specific addressing mode. This mode is designated "VC Encoded Address Mode."

Invoke this mode using the configure command, as described in Appendix A of the *Compaq StorageWorks SAN Switch Fabric Operating System Management Guide*. When using this compatibility mode, the maximum switch count in a fabric is reduced from 239 to 32, and the maximum number of multicast groups is reduced from 256 to 31.

If the compatibility mode is not set, the following error message displays when you interconnect a SAN Switch 8 and a Compaq StorageWorks Fibre Channel Switch:

FABRIC, SEGMENTED, LOG_WARNING
Description: Fabric segmented.
Probable Cause: Incompatible fabric parameters/switches or conflict zones.
Action: Reconfigure fabric or zones. See configure command.

CD Directory Structure

This section lists the contents of the Compaq StorageWorks SAN Switch Software CD, including the names and descriptions of the files that contain release notes for the SWCC client and agent for managing the SAN Switch 8.

```
-Dsggb
    -Docs
        -readme.txt (CPQ SWK RELEASE NOTES; late-breaking doc changes)
        -ek-bcp24-ia.pdf  (CPQ SWK SAN Switch 8 Installation and Hardware Guide)
        -ek-bcp28-ia.pdf  (CPQ SWK SAN Switch 16 Installation and Hardware Guide)
        -ek-p20ff-ga.pdf  (CPQ SWK SAN Switch Fabric Operating System
                          Management Guide)
        -ek-p20ps-ia.pdf  (CPQ SWK SAN Switch Power Supply Installation Guide)
        -ek-p20ql-ga.pdf  (CPQ SWK SAN Switch QuickLoop Management Guide)
        -ek-p20ww-ga.pdf (CPQ SWK SAN Switch Web Management Tools
                          Reference Guide)
        -ek-p20zg-ga.pdf (CPQ SWK SAN Switch Zoning Reference Guide)
        -161353-001.pdf (CPQ SWK SAN Switch 8 Configuration Poster)
        -161354-001.pdf (CPQ SWK SAN Switch 16 Configuration Poster)
    -Firmware (Compaq StorageWorks Fibre Channel Firmware and updates)
        -firmwareupdate.txt (instructions for updating firmware)
        -v2.0.3a (switch firmware)
        -v2.0.1aFE.mib (Management Information Base for fabric)
        -v2.0.1aSW.mib (Management Information Base for switch)
        -v2.0.1aTRP.mib (Management Information Base for traps)
        -NTAlpha
            -Cat.exe (mover for upgrading firmware from an Alpha)
            -Rshd.exe (small server for upgrading firmware from an Alpha)
        -NTIntel
            -cat.exe (mover for downloading firmware from a PC)
            -rshd.exe (small server for upgrading firmware from PC)
-SWCC(SWCC software for managing the Compaq StorageWorks SAN Switch and the
        Compaq StorageWorks Fibre Channel Switch)
    -ccclient.txt (SWCC Client release notes)
    -fcswitch.txt (Switch Client release notes)
    -readme.txt (SWCC late breaking changes)
    -swccinstallguide.pdf (CPQ SWK Command Console for the SAN Switch
                          Installation Guide)
    -NTAlpha
        -Agent
            -Fibre (contains the installSHIELD kit)
        -Client (contains the installSHIELD kit for AppMgr)
            -Fibre (contains ISHIELD fibre applet kit)
    -NTIntel
        -Agent
            -Fibre (contains the installSHIELD kit)
        -Client (contains the installSHIELD kit for AppMgr)
            -Fibre (contains ISHIELD fibre applet kit)
-Acrobat
    -Ar32e301.exe
        -other acrobat files
```

Known Issues

This section describes the known issues and problems related to the SAN Switch 8 as of 1/31/00.

QuickLoop

QuickLoop, with large numbers of looplets (16), can cause some adapters to time out during initialization, resulting in repetitive initializations.

Web Management Tools

■ Netscape 4.6 (IRIX) fails to load SwitchManager.html (core dump of Netscape or SwitchApplet cannot start error).

■ When running the Web Management Tools firmware V2.0 on a switch, a fault does not show when you remove a power supply.

StorageWorks Command Console (SWCC)

The StorageWorks Command Console has the capability to log SNMP trap information (error and status events) occurring on the switch into the Windows NT application Event log. To enable this capability the following parameters must be set on the switch:

■ swEventTrapLevel: (0..5) – must be set for a severity level from 0 to 5

❑ 0 – none

❑ 1 – critical

❑ 2 – error

❑ 3 – warning

❑ 4 – informational

❑ 5 – debug

NOTE: Additional information is documented in the SAN Switch Fabric Operating System Management Guide.

■ authTrapsEnabled: (true, t, false, f)—must be set to "true" or "t" to enable sending of traps

These parameters can be set by using the switch telnet interface along with the agtcfgSet command.

Switch Operating System

■ When connected to some Ethernet switches, the Compaq StorageWorks SAN Switch with 100BaseT sometimes fails to connect through Telnet and the GUI.

■ Usernames can be changed from the admin page of the Web Management Tools. Usernames should be unique; however, if a username is changed to one that is already in use, no message will display stating that the username is not unique, and the original username changes to the duplicate value.

■ The Port LED tab in the Port Detail View page of the Web Management Tools will not receive a status update after a reload in Netscape 4.0.

■ Negative numbers in statistics of port display do not match with positive numbers in Telnet portStatsShow display.

■ Zoning information still transfers through an E-port between a SAN Switch 8 to a SAN Switch 16, even if the SAN Switch 8 does not have fabric operating system license.

■ During a telenet session with a SAN Switch 8 from a True64 UNIX or OpenVMS machine, the **Backspace**, **Delete**, and **Left Arrow** keys do not work properly. The keyboards shipped with these machines produce a "question mark" character instead of deleting characters when using the **Backspace** key. It is necessary to type **Control + H** to delete characters. The **Delete** key changes the case of the letter at the cursor and prevents you from adding anything to the line. The **Left Arrow** key deletes the character to its left and prevents you from adding anything to the line.

■ The SAN Switch 8 is configured with default IP address 10.77.77.77. This IP address may not be compatible with your configuration. The IP address can be changed by two different methods. One method is using the serial connection. When connecting to the switch using this method, the switch's IP address is not used. Once the serial line is connected, use the command ipAddrSet to change the default IP address to an IP address that is suitable for your configuration. The other method to change the IP address is to use the default IP address and an ethernet connection to the switch. Once the ethernet is connected to the switch, use the same ipAddrSet command to change the IP address.

NOTE: When using the serial port connection, the flow control must be set to None.

Supported Configurations

This release supports cascading of switches. **See Compaq Solutions Kits for supported configurations involving cascading of switches.**

Cables

Optical cables for the SAN Switch 8 must be ordered separately. 500 meters or less cables should be multi-mode Fibre Channel cables. Cables that are longer than 500 meters should be single-mode. Multi-mode optical cables are connected to shortwave GBIC modules in the SAN Switch 8. Single-mode optical cables are connected to longwave GBIC modules in the SAN Switch 8. Multi-mode cables should use 50/125 optical fibers, SC Duplex connectors with a PC finish. Use of 62.5/125 should be restricted to situations where 62.5/125 optical fiber was previously installed and the link lengths are to be kept shorter than 200 meters. Single-mode cables typically use 9/125 optical fibers for distances up to 10 km.

GBIC Modules

Giga-Bit Interface Converter (GBIC) modules for the SAN Switch 8 must be ordered separately. The Compaq part number for the optical GBIC module for multi-mode cable is 380561-B21. Two single-mode GBIC modules and a short single-mode test cable can be ordered in a kit (part number 340412-B21).

In the Switch View Page of the Web Management Tools, the gigabit interface converters (GBICs) are identified differently depending on the type of GBIC and the supplier. Some examples of the displays include "ID" for VIXEL short wave GBICs and "SW" for IBM short wave GBICs.

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