

# StorageWorks by Compaq

## Extended Fabric Version 2.6

### Release Notes

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*These release notes contain last-minute and supplemental information for Extended Fabric Version 2.6.*

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Be sure to read these notes before installing Extended Fabric Version 2.6. This information is periodically updated and available on the Compaq Website:

<http://www.compaq.com/storage>.

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**Compaq Computer Corporation**

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# Release Notes Contents

These release notes cover the following major topics:

- Extended Fabric 2.6 Features
- Extended Fabric Documentation
- License
- License Check
- Enhancements
- Configuring the Extended Fabric Feature

## Extended Fabric 2.6 Features

Extended Fabric is an optional software application that allows you to:

- Increase the distance between two switches or between a switch and an ATM gateway.
- Provides maximum buffering between E\_Ports connected over an extended distance through buffer reconfiguration.
- Provides the highest possible performance for transfers between switches.
- Easy license install using telnet or Web Management Tools.

**NOTE:** Performance may vary depending on the condition of the fiber optic connections between the switches. Losses due to splicing, connectors, tight bends, and other degradation can affect the performance over the link and the maximum distance possible.

## Extended Fabric 2.6 Documentation

For specific Extended Fabric procedures, refer to the *StorageWorks by Compaq Extended Fabric Version 2.6 User Guide* (Part Number AA-RR7AB-TE).

## License

The Extended Fabric software is integrated into the switch firmware, but must be enabled by an optional License Key. The firmware is also contained on the *Compaq StorageWorks SAN Switch Software 2.6 CD*, in the DSGGB/firmware directory.

**NOTE:** If you do not have an Extended Fabric License, and would like to purchase one, contact your switch supplier.

## License Check

In order to run Extended Fabric, you must purchase an optional Extended Fabric License. Use the procedure outlined below to determine if there is a License already installed.

**NOTE:** Extended Fabric requires an Extended Fabric license for each of the two “core” switches (the switches at each end of the extended connection) only.

1. Log on to the switch by telnet, using an account that has administrative privileges.
2. To determine whether an Extended Fabric license is already installed on the switch, type **licenseShow** on the telnet command line.

A list displays of all the licenses currently installed on the switch. For example:

```
admin>licenseShow
1A1AaAaaaAAAA1a:
Release v2.6
Extended Fabric
Web license
Zoning license
QuickLoop license
```

If an Extended Fabric license is not included in the list, or is incorrect, continue with step [3]. If an Extended Fabric license is listed, the feature is installed and immediately available. Skip steps [3] and [4].

3. Enter the following on the command line:

```
licenseAdd “key”
```

where “key” is the license key provided to you, enclosed in double quotes. The license key is case sensitive and must be entered exactly as given.

4. Verify that the license was added by entering the following on the command line:

```
licenseShow
```

If the Extended Fabric license is listed, the feature is installed and immediately available. If the license is not listed, repeat step [3].

## Enhancements

New, easy-to-use Graphical User Interface (GUI) in Web Tools for configuring the Extended Fabrics option.

## Configuring the Extended Fabric Feature

Use these steps to configure a switch for the Extended Fabric option.

**NOTE:** Each switch in the fabric must be configured individually.

### Set the Long Distance Fabric Value

Set the distance for the switch ports to either medium or long distance, using telnet or the Web Tools GUI application, as follows.

1. To enable the Extended Fabric feature using telnet:
  - a. Log into a switch by telnet
  - b. Enter the **switchDisable** command at the telnet command line.
  - c. Enter the **configure** command at the telnet command line.
  - d. Select “yes,y” at Fabric parameters line.
  - e. Enter “1” on the following telnet command line:  
Long Distance Fabric [0]: **1**
2. To set the long distance fabric value to “1” using Web Tools:
  - a. Launch Web Tools.
  - b. Open the Switch Administration window.
  - c. Check the Extended Fabric checkbox on the Switch Admin tab.

**NOTE:** For detailed information on using the Switch Administration window, refer to the *Fibre Channel SAN Switch Management Guide*, Part Number AA-RMMJB-TE.

## Set the Port Distance Levels

Set the distance for the switch ports to either medium or long distance, using telnet or the Web Tools GUI application, as follows.

1. To set the switch ports distance levels using telnet:
  - a. Use the **portCfgLongDistance** command to set the port's long distance value. Make sure to include the appropriate port number and level operands. There are three possible levels for a port:
    - *Level 0* Reconfigures the port as a regular switch port. The number of buffers reserved for the port supports up to 10 km links.
    - *Level 1* Distances up to 50 km will support 1Gbps.
    - *Level 2* Distances up to 100 km will support 1Gbps.
- NOTE:** For detailed information on Extended Fabric commands and configuration, refer to the *Extended Fabric Version 2.6 User Guide*, Part Number AA-RR7DB-TE.
2. To set the switch ports distance levels using Web Tools:
  - a. Launch Web Tools.
  - b. Open the Switch Administration window.
  - c. Select the Extended Fabric tab.
  - d. Check the checkboxes corresponding to the ports to be configured for a specific distance level. There are three possible levels for a port:
    - *Level 0* Reconfigures the port as a regular switch port. The number of buffers reserved for the port supports up to 10 km links.
    - *Level 1* Distances up to 50 km will support 1Gbps.
    - *Level 2* Distances up to 100 km will support 1Gbps.