

# Veritas Appliance

## Hardware Service Procedure

### Replacing a fibre channel SFP module in a Veritas 5U84 Storage Shelf

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#### Purpose

This document describes the process for replacing a fibre channel SFP module in a 5U84 Storage Shelf that is connected to a 5340 appliance.

#### Electrical Safety

The static discharged by human bodies can damage static-sensitive components on the boards. When installing and maintaining the equipment, observe appropriate electrostatic safety precautions to prevent personnel injuries or device damage.

When operating a device in an electrostatic sensitive area, you must take electrostatic-discharge (ESD)-preventive measures. These include wearing ESD-preventive gloves, an ESD-preventive wrist strap, and ESD-preventive clothes to avoid personnel injury or device damage.

To prevent damage to the device, pay attention to the following during operations:

- Do not touch devices with bare hands because ESD from the human body may damage the electrostatically sensitive elements on a board.
- When dealing with the server or any of the internal components, wear an ESD-preventive wrist strap, ESD-preventive gloves, and ESD-preventive suit.

#### High availability (HA) appliance service considerations

**Attention:** A HA or multi-node appliance is serviced in the same manner as a single node appliance.

#### About replacing a Fibre Channel SFP module in a 5U84 Primary Storage Shelf RAID Controller

The 5U84 Primary Storage Shelf uses two RAID Controllers located in the top two slots of the shelf's back panel. Each RAID Controller holds four SFP modules that can be individually replaced.



## Requirements

Use the following to verify the requirements of the service.

### Verify you have the following items

- 1 Replacement SFP module
- 2 ESD wrist strap
- 3 Removable labels to mark the fibre optic cables

## Removing a faulty Fibre Channel SFP module

Use the following procedure to remove a faulty Fibre Channel SFP module.

### To remove the faulty Fibre Channel SFP module

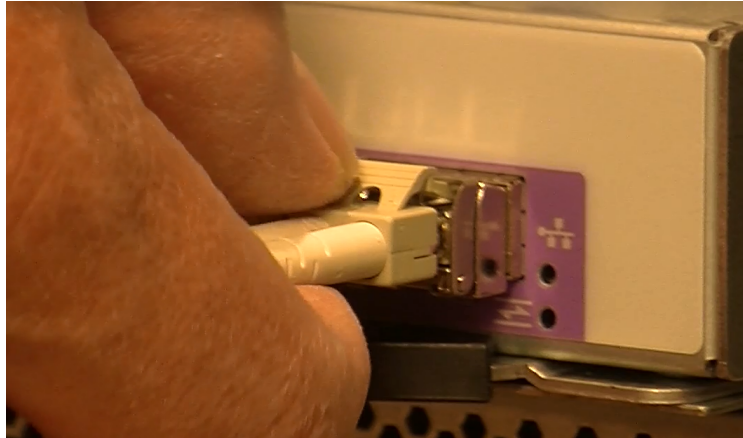
- 1 Locate the faulty Fibre Channel SFP module and attach a removable label to the fiber optic cable connected to the faulty module.

The fiber optic cable should look like this after it is disconnected from the module.



- 2 Disconnect the fiber optic cable.

Disconnect the fiber optic cable by depressing the clip located at the top of the fiber optic cable connector and then pulling the connector out of the optical module.

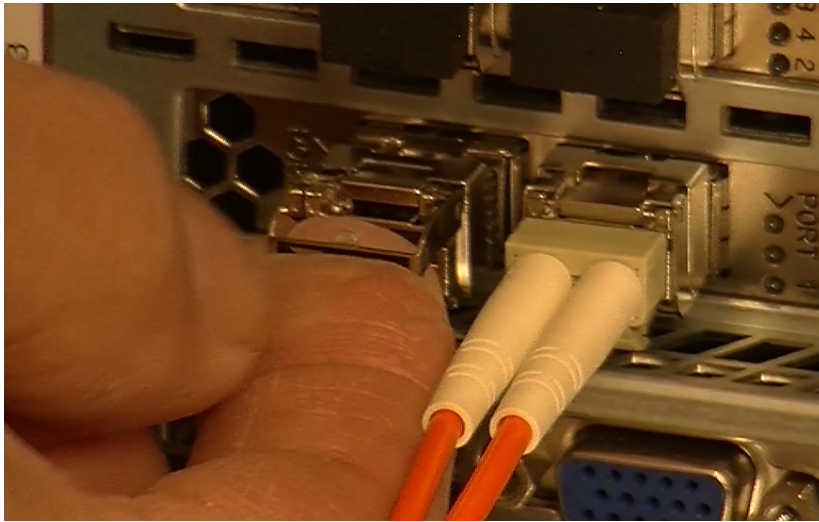


- 3 (Optionally) If available, place the fiber cable plastic guards into the opening of the fiber optic cable tubes.

By doing this, the fiber cable cannot be damaged or be pointed into a person's eye.



- 4 Remove the module by grasping the hinged removal tab at the front of the module. The tab swings down to provide a handle that can be used to remove or insert the optical module.



## Installing a replacement Fibre Channel SFP module

Use the following procedure to install a replacement Fibre Channel SFP module.

### To install the replacement Fibre Channel SFP module

- 1 Locate the replacement Fibre Channel SFP module.
- 2 Align the module face-up and then slide the module slowly into the receptacle until resistance is felt.
- 3 Press the front of the module and apply a slight amount of additional pressure until you feel and hear the module click into the place.
- 4 Remove the plastic guards from the ends of the fiber optic cable tubes.
- 5 Insert the connector into the SFP module until the connector clicks
- 6 Remove the temporary label from the fibre optic cable.
- 7 Verify that the system is functioning properly. If it is not, contact Veritas Technical Support.