



## SECTION OUTLINE for a V-FAS3100 (3140/60/70) Appliance Controller Module Replacement

This procedure will take 90-180 minutes.

I.	Appliance/Controller Module Tray Visual Checks	XI.	Install PCI Riser and Cards
II.	Node Pre-Checks	XII.	Partially Reinsert the Replacement Controller and Reconnect the cables
III.	Node State Check and Shutdown Procedure	XIII.	Set date and time on the RTC and Reset PROM variables
IV.	Capture the Current System Configuration	XIV.	Run Diagnostics (20-45 min)
V.	Open the System: Remove the cables, Cable Management Tray and extract the Controller	XV.	Set Fibre Channel (FC) "target" Ports
VI.	Move on-board SFPs - Remove PCI Cards and the Riser	XVI.	Capture new System-ID on replacement Controller
VII.	Move the RLM Module	XVII.	Disk Reassign
VIII.	Exchange the CompactFlash Cards	XVIII.	Boot the Operating System - 'cf giveback' if applicable
IX.	Move the System DIMMs	XIX.	New controller registration, Submit logs and Part Return
X.	Move the NVRAM Battery and NVRAM DIMM		

### I. V-FAS3100 Family: Appliance / Controller Module Visual Checks

#### Step Action Description

1 Visually verify if you are working on correct model and READ the **STOP** box below.

The FAS3100 Appliance has either one or two Controller Modules, A, B in a single chassis.

Fig 1 FAS3100 Model 6u

Fig 2 PS-1 AC Switch, PS-2 AC Switch

AC Power

Controller activity LEDs: If LED flashes GREEN, that controller is online.

"1" LED is ON when hardware failures are detected or if controller failover is disabled.

Active-Active Configuration has 2 controller cards, (A & B) as shown. A single controller system has only one card in the top slot.

1 Red Thumb screw to extract each controller

Fig 3 The NVRAM D87 LED is located behind the grill.

Cam Handle

Controller Rear View

PCI - 1, PCI - 2, PCI - 3, PCI - 4

IOIOI (Console) Port

Ethernet Ports: e0a, e0b

RLM Port

0a, 0b, 0c, 0d Fibre Channel Ports

Status LED

The Status LED will be "ON" if the controller is faulted or if clustering is disabled

Each Controller Module, (A or B slot) has it's own System Serial Number

**STOP !!** The NVMEM D87 LED will start flashing through the grill, reference Fig 3, when power is removed from the controller if the system is "waiting for giveback", or the system was not shutdown properly (uncommitted data). Follow the steps in Section V carefully.

2 Continue with Section I on next page.

# Netapp 3140 Guide

**M Carnoy**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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